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GEOLOGY

RIO BLANCO
OIL SHALE PROJECT
PROGRESS REPORT 9
SECTION 1.1
GEOLOGIC PROGRAM - INTERPRETIVE TEXT

GULF OIL CORPORATION
AND
STANDARD OIL COMPANY (INDIANA)
9725 EAST HAMPDEN AVENUE, DENVER, COLORADO 80231

PROGRESS REPORT 9

GEOLOGIC PROGRAM - INTERPRETIVE TEXT

TRACT C-a OIL SHALE DEVELOPMENT

to

AREA OIL SHALE SUPERVISOR
UNITED STATES GEOLOGICAL SURVEY

February 15, 1977

by

RIO BLANCO OIL SHALE PROJECT

Gulf Oil Corporation
and
Standard Oil Company (Indiana)

1.1 Geologic Program

Activity occurring under the geologic program during the quarterly reporting period (September, October and November 1976) related to laboratory analyses being conducted by the United States Geological Survey (USGS) on samples split from 1,116 feet of core from the G-S 7 corehole. Other tasks under the geologic program have been completed.

During September 1976, the USGS began laboratory analysis on 1,116 feet of G-S 7 core samples. The analysis will include quantitative analysis of the seven trace elements in the Rio Blanco program (antimony, arsenic, boron, cadmium, fluorine, mercury, and selenium) as well as two others, vanadium and molybdenum. The composite sample intervals being analyzed by the USGS are identical to those analyzed earlier for RBOSP by Core Lab to allow direct comparison of the USGS analyses with the earlier Core Lab results. Rio Blanco is retaining a split of the USGS-prepared composite samples. In the event that discreprancies exist between the Core Lab and USGS analyses Rio Blanco may elect to run additional analyses on the USGS-prepared composites in order to determine the causes of such discreprancies. As of the end of the quarterly reporting period the trace element analysis program was nearing completion. Final results of the trace element analyses will be submitted to the AOSS following completion.

Also during the month of September 1976 the USGS requested permission from Rio Blanco to run extractable alumina analyses on samples from the G-S 7 core. Rio Blanco approved the request and as of the end of November 1976, the extractable alumina analyses were nearly 40% complete. The extractable alumina analyses are to be run on one to two feet core increments rather than composite interval samples. The results of the extractable alumina analyses will be submitted to the AOSS upon completion.

1.L AYORDLOY

PROGRESS REPORT 9

SEPTEMBER, OCTOBER, NOVEMBER, 1976

GEOTECHNICAL DATA GATHERING PROJECT

HYDROLOGIC PROGRAM

SECTION 1.2

INTERPRETIVE TEXT

JANUARY 15, 1977

To

AREA OIL SHALE SUPERVISOR
UNITED STATES GEOLOGICAL SURVEY

By

WRIGHT WATER ENGINEERS, INC.
For
GULF OIL CORPORATION
And
STANDARD OIL COMPANY (INDIANA)

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HYDROLOGIC PROGRAM, SECTION 1.2
SURFACE WATER DATA COLLECTION PROGRAM [1]

Station	Discharge		Water Quality		Precipitation		
	Instantaneous	Continuous	Data	Summary	Recording	Storage	Intensity
Box Elder Gulch near west line Tract C-a	R2, R3V1, R4	R5, R6, R7, R8 R9	R3V1, R6V R7V, R8V R9V	R4, R5, R6, R7, R8, R9		R4, R4V, R5, R5V, R6, R6V, R7, R7V, R8, R8V R9, R9V	
Dry Fork near west line Tract C-a						R4, R4V, R5, R5V, R6, R6V R7, R7V, R8, R8V R9, R9V	
Corral Gulch near west line Tract C-a	R2, R3, R3V1, R4	R5, R6, R7, R8, R9	R3V1, R6V R7V, R8V, R9V	R3, R4, R5 R6, R7, R8, R9		R4, R4V, R5, R5V, R6, R6V, R7, R7V, R8, R8V R9, R9V	
Corral Gulch east of Tract C-a	R3, R3V1, R4	R5, R6, R7, R8, R9	R3V1, R6V R7V, R8V, R9V	R3, R4, R5, R6, R7, R8, R9			
Corral Gulch south of 84 Mesa	R5, R6	R7, R8, R9	R6V, R7V, R8V R9V	R5, R6, R7, R8, R9			
Stake Spring Draw near Confluence with Corral Gulch		R7, R8, R9	R7V, R8V	R7, R8, R9	R3, R3V1, R4, R4V, R5, R5V, R6, R6V, R7, R7V, R8, R8V, R9, R9V		R5V, R6V
Yellow Creek near White River, Colorado	R2, R3, R3V1 R4,	R5, R6, R7, R8, R9	R6V, R7V, R8V, R9V	R5, R6, R7, R8, R9	R3, R3V, R4, R4V, R5, R5V, R6, R6V, R7, R7V, R8, R8V, R9, R9V		R5V, R6V
Corral Gulch near Cathedral Bluffs					R3, R3Va, R4, R4V, R5, R5V, R7, R7V, R8, R8V, R9, R9V		R5V, R6V
Tributary to Yellow Creek east of 84 Mesa		R7, R8, R9	R7V, R8V	R7, R8, R9			
"Rinky Dink" Gulch near east line Tract C-a		R7, R8	R7V, R8V	R7, R8, R9			
Upper Big Duck Creek north of 84 Mesa		R7, R8, R9	R7V, R8V	R7, R8, R9			
Lower Big Duck Creek north of 84 Mesa		R7, R8, R9	R7V, R8V	R7, R8, R9			

1. LEGEND: Applies to Alluvial Aquifer Data and Deep Aquifer Data Program.

R: RBOSP Progress Report, Hydrologic Program

V: RBOSP Hydrologic Program Raw Data Volume

A: RBOSP Progress Report, Hydrologic Program, Interpretive Text Appendix

e.g.: R3V1 RBOSP Progress Report 3, Hydrologic Program, Raw Data Volume 1.

INDEX OF DATA FOR RIO BLANCO OIL SHALE PROGRESS REPORTS 2-9
HYDROLOGIC PROGRAM, SECTION 1.2

DEEP AQUIFER PROGRAM DATA

	WATER QUALITY						
	DRILLING		PUMPING TEST		MONITORING		
TEST HOLE	FIELD ANALYSIS COND., pH, TEMP.	LAB ANAYLSIS	FIELD ANALYSIS COND.,pH, TEMP.	LAB ANALYSIS	LAB ANALYSIS	SUMMARY OF LAB ANALYSIS	CHEMICAL CONSTITUENT DISTRIBUTION MAPS
AM-2A		R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
AM-3		R3V1			R3V1, R4Va, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
AM-4		R3V1					R4, R4V
CE-701		R3V1				R3, R4, R5, R7, R8, R9	R4, R4V
CE-702		R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
CE-703		R3V1				R3, R4, R4, R7, R8, R9	R4, R4V
CE-705A		R3V1	R3	R3V1		R3, R4, R5, R7, R8, R9	R4, R4V
CE-707		R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
CE-708		R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
CE-709		R3V1			R3V1, R4V1, R5V, R7V, R9V	R4V, R5, R7, R8, R9	R4, R4V
G-S 1	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S 2-3	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S 4-5	R2A	R3V1	R3	R3V1	R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S 6	R2A	R3V1			R3V1, R4V1, R4V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S 7	R2A	R3V1				R3, R4, R5. R7, R8, R9	R4, R4V
G-S 8	R2A	R3V1			R3V1, R4V1, R5V, R7V	R3, R4, R5, R7, R8	R4, R4V
G-S 9	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S 10	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S 11	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S 12	R2A	R3V1	R3	R3V1	R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S 13	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S 14	R2A	R3V1				R3, R4	R4, R4V
G-S 15	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S D16	R2A	R3V1	R3	R3V1		R3, R4	R4, R4V
G-S D17	R2A	R3V1	R3	R3V1		R3, R4	R4, R4V
G-S D18	R2A	R3V1	R3	R3V1		R3, R4	R4, R4V
G-S D19	R2A	R3V1	R3	R3V1		R3, R4	R4, R4V
G-S M1	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S M2	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S M3	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S M4	R2A	R3V1			R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
G-S M5	R4	R4V1			R4V1, R5V, R7V, R9V	R4, R5, R7, R8, R9	
TO 1					R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
TO 2					R3V1, R4V1, R5V, R7V, R9V	R3, R4, R5, R7, R8, R9	R4, R4V
TO 3			R3	R3V1	R3V1	R3, R4	R4, R4V

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HYDROLOGIC PROGRAM, SECTION 1.2

DEEP AQUIFER PROGRAM DATA

	GEOHYDROLOGIC DATA						
	PUMPING TESTS				MONITORING PROGRAM		
TEST HOLE	WATER LEVEL DRAWDOWN DATA	SEMI-LOG DRAWDOWN PLOTS	TRANSMISSIVITY AND STORAGE COEF.	TRANSMISSIVITY AND PERMEABILITY MAPS	WATER LEVELS	HYDROGRAPHS	PIEZOMETRIC SURFACE MAPS
AM-2A	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
AM-3	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
AM-4							
CE-701	R3V3	R3A			R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
CE-702	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
CE-703							
CE-705A	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A	R4, R5, R6, R7, R8, R9
CE-707	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
CE-708	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
CE-709	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S 1	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S 2-3	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S 4-5	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S 6	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S 7							
G-S 8	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7
G-S 9	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S 10	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S 11	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S 12	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R4, R6, R7, R8, R9
G-S 13	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S 14							
G-S 15	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S D16	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A	R4
G-S D17	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A	R4
G-S D18	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A	R4
G-S D19	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A	R4
G-S M1	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
G-S M2	R3V3	R3A	R3		R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	
G-S M3	R3V3	R3A	R3		R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	
G-S M4	R3V3	R3A	R3		R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	
G-S M5							
TO 1	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
TO 2	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A, R4A	R4, R5, R6, R7, R8, R9
TO 3	R3V3	R3A	R3	R4	R3V2, R7, R7V, R8, R8V, R9, R9V	R3A	R4

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HYDROLOGIC PROGRAM, SECTION 1.2

DEEP AQUIFER PROGRAM DATA

	COMPLETIONS		GEOHYDROLOGIC DATA				
			AQUIFER		DRILLING		
					Geophysical		
TEST HOLE	Test Hole Cross Sections	Pump Installations	Hydrologic Cross Section	Aquifer Thickness Maps	Water Velocity, Water Movement & Temp. vs. Depth	Water Production	Informal Recovery Tests
AM-2A	R2A		R2	R4			
AM-3	R2A		R2	R4			
AM-4	R2A		R2	R4			
CE-701	R2A	R3	R2	R4			
CE-702	R2A		R2	R4			
CE-703	R2A			R4			
CE-705A	R2A	R3	R2	R4			
CE-707	R2A		R2	R4			
CE-708	R2A		R3	R4			
CE-709	R2A		R3	R4			
G-S 1	R2A		R2	R4	R2A	R2A	R2A
G-S 2-3	R2A		R2	R4	R2A	R2A	R2A
G-S 4-5	R2A	R3	R2	R4	R2A	R2A	R2A
G-S 6	R2A		R2	R4	R2A	R2A	R2A
G-S 7	R2A		R2	R4	R2A	R2A	R2A
G-S 8	R2A		R2	R4	R2A	R2A	R2A
G-S 9	R2A		R2	R4	R2A	R2A	R2A
G-S 10	R2A		R2	R4	R2A	R2A	R2A
G-S 11	R2A		R2	R4	R2A	R2A	R2A
G-S 12	R2A	R3	R2	R4	R2A	R2A	R2A
G-S 13	R2A		R2	R4	R2A	R2A	R2A
G-S 14	R2A		R2	R4	R2A	R2A	R2A
G-S 15	R2A		R2	R4	R2A	R2A	R2A
G-S D16	R2A	R3	R2	R4		R2A	
G-S D17	R2A	R3	R2	R4		R2A	
G-S D18	R2A	R3	R2	R4		R2A	
G-S D19	R2A	R3	R2	R4		R2A	
G-S M1	R2A		R2	R4	R2A	R2A	R2A
G-S M2	R2A				R2A	R2A	R2A
G-S M3	R2A				R2A	R2A	R2A
G-S M4	R2A				R2A	R2A	R2A
G-S M5	R4					R4	
TO 1	R2A		R2	R4			
TO 2	R2A		R2	R4			
TO 3	R2A		R2	R4			

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ALLUVIAL AQUIFER DATA

Test Hole	Drilling	Water Level	Water Quality: Field Data pH, Cond., Temp.	Water Quality: Lab. Analysis	Summary
S-6*					
S-7	R2A	R3, R4, R5, R6, R7, R8, R9	R3, R4, R5, R6, R7, R8, R9	R3V1, R4V, R5V, R6V, R7V, R8V, R9V	R3, R4, R5, R6, R7, R8, R9
S-8	R2A	R3, R4, R5, R6, R7, R8, R9	R3, R4, R5, R6, R7, R8, R9	R3V1, R4V, R5V, R6V, R7V, R8V, R9V	R3, R4, R5, R6, R7, R8, R9
S-11	R2A	R3, R4, R5, R6, R7, R8, R9	R3, R4, R5, R6, R7, R8, R9	R3V1, R4V, R5V, R6V, R7V, R8V, R9V	R3, R4, R5, R6, R7, R8, R9
S-12	R2A	R3, R4, R5, R6, R7, R8, R9	R3, R4, R5, R6, R7, R8, R9	R3V1, R4V, R5V, R6V, R7V, R8V, R9V	R3, R4, R5, R6, R7, R8, R9
S-13*	R2A				
S-14*	R2A				
S-15*	R4A				
S-16*	R4A				
S-17*	R4A				
S-18*	R4A				
S-19	R4A	R4, R5, R6, R7, R8, R9	R4, R5, R6, R7, R8, R9	R4V, R5V, R6V, R7V, R8V, R9V	R4, R5, R6, R7, R8, R9
S-22	R4A	R4, R5, R6, R7, R8, R9	R4, R5, R6, R7, R8, R9	R4V, R5V, R6V, R7V, R8V, R9V	R4, R5, R6, R7, R8, R9
S-23	R4A	R4, R5, R6, R7, R8, R9	R4, R5, R6, R7, R8, R9	R4V, R5V, R6V, R7V, R8V, R9V	R4, R5, R6, R7, R8, R9
S-24	R4A	R4, R5, R6, R7, R8, R9	R4, R5, R6, R7, R8, R9	R4V, R5V, R6V, R7V, R8V, R9V	R4, R5, R6, R7, R8, R9

* The test holes that are not referenced are dry: See Text R3, R4, R5, R6, R7, R8, and R9.

1.2 HYDROLOGIC PROGRAM

The purpose of the surface and subsurface hydrologic baseline program being conducted on Tract C-a for the Rio Blanco Oil Shale Project (RBOSP) is to establish baseline data. These data include: precipitation, stream flows and quality, alluvial aquifer monitoring and water quality analyses, and deep oil shale aquifer monitoring and water quality analyses.

RBOSP Progress Report 9 submits to the AOSS the hydrologic data gathered or received during the period of September through November 1976. This hydrologic report is submitted in two parts: the Interpretive Text and a Raw Data Volume. In the Interpretive Text Volume the text, tables, and figures are the result of the data gathering program. The Raw Data Volume contains the actual data, most of which is in a computer printout form.

The following is a brief summary of the previous Quarterly Reports:

- Progress Report 2 - Contains data from the drilling program;
- Progress Report 3 - Contains data obtained during the formal pumping tests;
- Progress Report 4 - Contains a detailed hydrologic evaluation of the data available through October 15, 1975;
- Progress Report 5 - Summarizes the annual hydrologic data for water year 1975;
- Progress Report 6 - Contains data and the interpretation for the sixth quarterly period, December through February 1976;
- Progress Report 7 - Contains data and the interpretation for the seventh quarterly period, March through May 1976;
- Progress Report 8 - Contains data and the interpretation for the eighth quarterly period, June through August 1976.

The hydrologic program began in the spring of 1974. These data have been used in both environmental and engineering studies. Analyses of the water quality data to date indicate that the water will be of sufficient quality to be used in mining and processing related to oil shale development.

1.2.1 SURFACE WATER MONITORING STATIONS

RBOSP has contracted with the Colorado River Water Conservation District to have the Water Resources Division of the USGS construct and monitor a total of eleven stream gaging stations and six rain gaging stations on or near Tract C-a. RBOSP Progress Reports 2, 3, and 5 described the operation of these monitoring stations. Of the eleven stream gaging stations, seven monitor all significant drainages associated with Tract C-a, while the remaining four stations monitor stream flow associated with the proposed processed shale disposal site on 84 Mesa. The three storage type rain gaging stations are located on Dry Fork, on Box Elder Gulch, and on Corral Gulch near the west line of Tract C-a. Rainfall intensity and recording-type rain gaging stations are located near the drainage divide of Cathedral Bluffs, on Stake Springs Draw near the confluence with Corral Gulch, and on Yellow Creek near White River, Colorado.

Table 1.2-1 gives the USGS identification numbers and locations of the eleven stream gaging stations and the six rain gaging stations. Table 1.2-2 shows the data collection schedule for stream gaging stations.

TABLE 1.2-1

LOCATION AND USGS IDENTIFICATION NUMBERS
FOR STREAM AND RAIN GAGING STATIONS

USGS Identification Number	LOCATION
09306237	Dry Fork near west line Tract C-a
09306235	Corral Gulch near west line Tract C-a
09306240	Box Elder Gulch near west line Tract C-a
09306242	Corral Gulch east of Tract C-a
09306230	Stake Springs Draw near confluence with Corral Gulch
09306255	Yellow Creek near White River, Colorado
09306241	Rinky Dink Gulch near east line Tract C-a
09306248	Upper Big Duck Creek north of 84 Mesa
09306250	Lower Big Duck Creek north of 84 Mesa
09306246	Tributary to Yellow Creek east of 84 Mesa
09306244	Corral Gulch south of 84 Mesa (near 84 Ranch)
	STORAGE-TYPE RAIN GAGES
09306235	Corral Gulch near west line Tract C-a
09306237	Dry Fork near west line Tract C-a
09306240	Box Elder Gulch near west line Tract C-a
	RAINFALL INTENSITY AND RECORDING RAIN GAGES
09306230	Stake Springs Draw near confluence with Corral Gulch
09306255	Yellow Creek near White River, Colorado
No number	Cathedral Bluffs located in NW¼, NW¼, Sec.14 T2S, R100W

TABLE 1.2-2

DATA COLLECTION SCHEDULE FOR STREAM GAGING STATIONS

Continuously or Automatically

- Flow Rate
- Sediment Discharge
- Temperature
- Specific Conductance

Periodically

- Storage Rain Gages
- Recording Rain Gages
- Rainfall Intensity Gages

Monthly

Water Samples Analyzed For:

- Alkalinity
- Biological Oxygen Demand
- Dissolved Organic Carbon
- Boron
- Calcium
- Conductance
- Fluoride
- Magnesium
- Potassium
- Silica
- Sodium
- Sulfate
- Ammonia
- Bicarbonate
- Carbonate
- Chloride
- Color
- Dissolved Solids
- Kjeldahl Nitrogen
- Nitrate plus Nitrite
- Odor
- Dissolved Phosphate
- Turbidity
- Dissolved Oxygen
- pH
- Temperature
- Total Phosphate
- Ortho Phosphate
- Suspended Organic Carbon

Quarterly

Sample and Analyze:

- COD
- Fecal Coliform
- Total Coliform
- Bromide
- Cyanide
- MBAS
- Oil & Grease
- Phenols
- Sulfide
- Radioactivity
  - Gross Alpha if > 4 pci/l then Ra^{226}, Natural Uranium
  - Gross Beta if >100 pci/l then Sr^{90} Ce^{137},
- Ba
- Be
- Ge
- Ga
- Ni
- Ti
- V
- Zr
- Al
- As
- Cd
- Cr
- Cu
- Fe
- Pb
- Li
- Mn
- Mo
- Hg
- Se
- Sr
- Zn

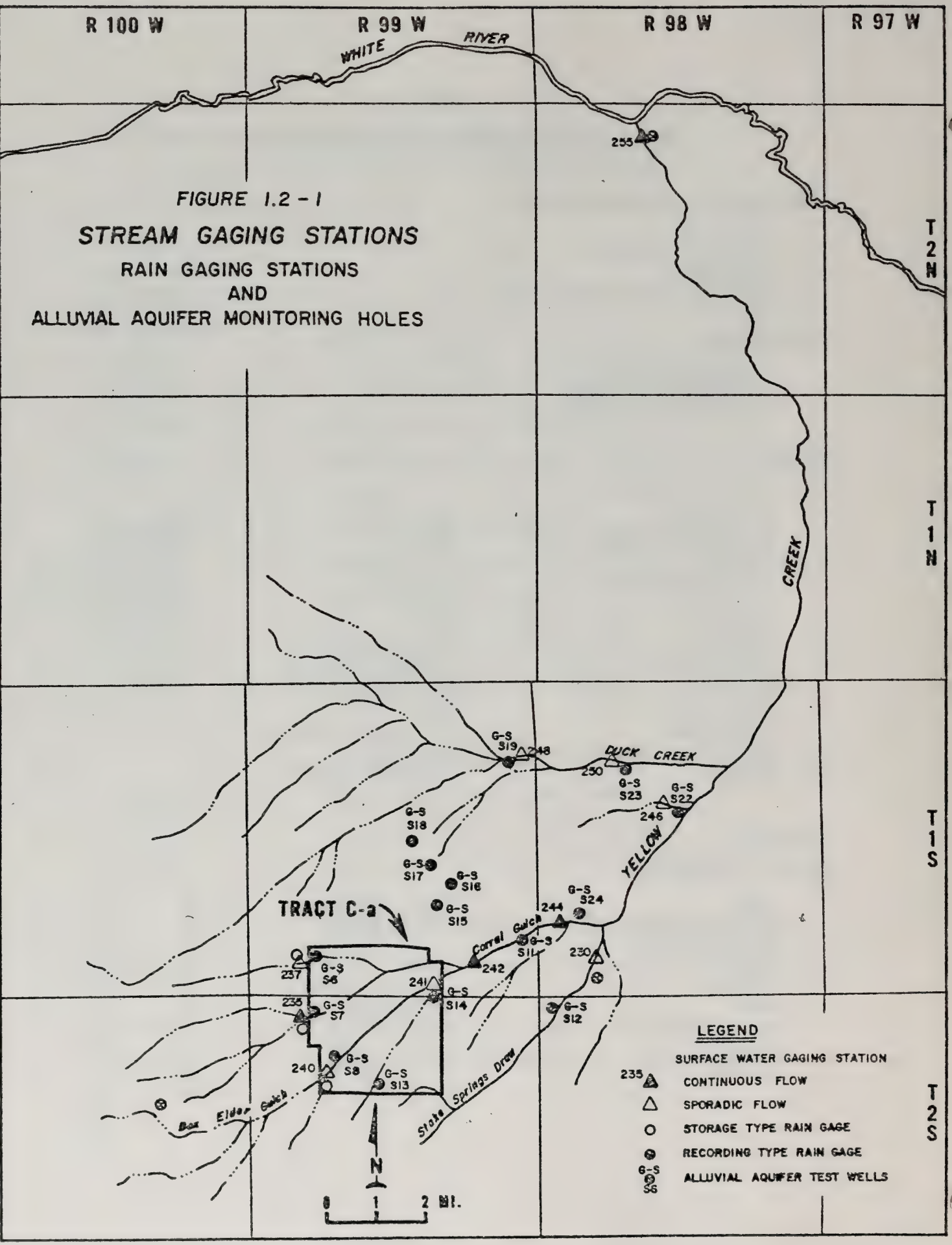


FIGURE 1.2 - 1

STREAM GAGING STATIONS

RAIN GAGING STATIONS AND ALLUVIAL AQUIFER MONITORING HOLES

1.2.2 SURFACE WATER DATA COLLECTION

This progress report is intended to cover the reporting period September through November. A lag time in USGS data processing does not allow data presented in each progress report to cover the entire reporting period. The period of time covered by each set of surface water data will also vary because of variability in USGS data processing time. The surface water data presented in this report are from new data made available since the last progress report.

Continuous surface flow data, continuous temperature data, and continuous conductivity data are complete up to the end of water year 1976. Water quality data for stream gaging stations were available to September 1976. Precipitation data for storage-type rain gages were available through November 1976. Precipitation data for recording rain gages were available to 2 October 1976. RBOSP has received stream sediment data for the water year 1976, but the data will not be presented until further analysis, at the request of the USGS.

Of the eleven stream gaging stations, seven stations did not record measurable discharge this reporting period. These seven stations are located on Dry Fork near west line Tract C-a, Box Elder Gulch near west line Tract C-a, Stake Springs Draw near the confluence with Corral Gulch, "Rinky Dink" Gulch near east line Tract C-a, upper Big Duck Creek north of 84 Mesa, lower Big Duck Creek north of 84 Mesa, and the tributary to Yellow Creek east of 84 Mesa. Continuous flow for the reporting period was measured at Corral Gulch near west line Tract C-a, Corral Gulch east of Tract C-a, Yellow Creek near White River, Colorado, and Corral Gulch south of 84 Mesa. Figures 1.2-2 through 1.2-11 show the mean continuous discharge of the ten (excluding Dry Fork Station) surface water gaging stations.

The stream gaging station on Corral Gulch near west line Tract C-a reported flow during the reporting period 21 July to 30 September. The USGS has revised the previously reported data for this location for the period 20 June to 20 July. These revisions do not make any significant changes in previous reporting. The flow between 20 June to 31 September had a low flow of .08 cfs at the beginning of the period and then rose to .22 cfs on 25 July. Flow then fluctutated between .18 cfs and .26 cfs through September. The flow pattern is comparable to the same period in 1975.

The Corral Gulch station east of Tract C-a was reported by the USGS to have measurable flow through out water year 1976. The pattern of flow for this reported period, 20 July through 31 September, is similar to that for 1975 as the flow has a gradual decrease from a peak of 1.0 cfs at the beginning of the period to a low flow of .29 cfs at the end of September.

Flow at Corral Gulch south of 84 Mesa remained very low throughout the reporting period 20 July through 31 September. The highest flow was .11 cfs recorded in August. The flow remained at .01 cfs from 6 August through 31 September.

Yellow Creek near White River, Colorado, station recorded flow during the entire water year 1976. The flow during the reporting period 11 August through 31 September was generally stable, usually ranging between .50 cfs and .70 cfs. A peak flow of 1.0 cfs was recorded at the beginning of the period. A low flow of .45 occurred on 4 September. The low flow during this period is similar to the lower flow patterns that occurred during the same periods in water years 1974 and 1975.

Tables 1.2-3 through 1.2-12 show concentrations of the chemical constituents from surface stream gaging sites as reported by the USGS. These data are preliminary and subject to correction and revision.

The analyses were made using both wet chemical and spectrographic methods. In some cases, the minimum detectable values vary due to either increased sensitivity of the test or because of the comparative nature of spectrographic analysis.

New chemical analyses have been reported for the stations Corral Gulch near west line Tract C-a, Box Elder Gulch near west line Tract C-a, Corral Gulch east of Tract C-a, Corral Gulch south of 84 Mesa, and Yellow Creek near White River, Colorado. Because of no flow, new water quality data have not been reported for the stations Dry Fork near west line Tract C-a, Stake Springs Draw near confluence with Corral Gulch, "Rinky Dink" Gulch near east line Tract C-a, upper Big Duck Creek north of 84 Mesa, lower Big Duck Creek north of 84 Mesa, and the tributary to Yellow Creek east of 84 Mesa.

New water quality data for Corral Gulch near west line Tract C-a has been reported for 19 August and 15 September. The values are similar to those previously reported for Corral Gulch west of Tract C-a, and are close to the year's average for this gaging station; i.e, dissolved solids, August - 730 mg/l, July - 761 mg/l, year's average 732 mg/l; alkalinity, August - 317 mg/l, July - 331 mg/l, year's average 305 mg/l; bicarbonate, July - 387 mg/l, August - 404 mg/l, year's average 371 mg/l.

Additional constituent values have been reported for the 24 June sampling at the Box Elder Gulch near west line Tract C-a stream gaging station. The new values are near previously reported values for this location; however, values reported for 18 March are slightly lower than the samples 25 May and 24 June. These low values result from taking the sample during an early season isolated thaw period. The other samples were taken later during the main snowmelt event.

Flow at the Box Elder can be distinguished from the other locations by several levels: bicarbonate, specific conductance, total dissolved solids, and magnesium. For example, specific conductance of

flow at Box Elder Gulch near west line Tract C-a (year's average 667 wmhos/cm) is comparatively lower than flow at four stations (Corral Gulch near west line Tract C-a, Corral Gulch east of Tract C-a, Corral Gulch south of 84 Mesa, Yellow Creek near White River, Colorado), where year averages range from 1058 wmhos to 3677 wmhos/cm. It is comparatively higher than flow at another four stations ("Rinky Dink" near west line Tract C-a, Stakes Springs Draw near confluence with Corral Gulch, tributary to Yellow Creek east of 84 Mesa, Upper Big Duck Creek north of 84 Mesa, and Lower Big Duck north if 84 Mesa), where year's averages range from 175 umhos/cm to 450 umhos/cm.

Corral Gulch east of Tract C-a reports additional data for 25 June and new data for 19 August and 16 September. These samples show a lower value for molybdenum and higher value for nitrate plus nitrite in comparison to other samples during 1976. Values for the other constituents generally conform with values previously reported for this location; i.e., reported values for 19 August and 16 September were: alkalinity 377 mg/l and 373 mg/l (year's average 373 mg/l); bicarbonate 460 mg/l and 455 mg/l (year's average 456 mg/l); and dissolved solids 772 mg/l and 771 mg/l (year's average 793 mg/l).

Corral Gulch south of 84 Mesa reports additional data for 26 June, and new data for 22 July, 20 August, and 16 September. The data are generally close to the year's average; i.e., alkalinity, July - 472 mg/l, year's average 489 mg/l; dissolved solids, August - 1300 mg/l, year's average 1283 mg/l; sulfate, September - 560 mg/l, year's average 551 mg/l. Constituents that show notable changes from these recent analysis as compared to other analysis during the year are kjeldahl nitrogen and gross beta. Compared to the other stream gaging stations, with the exception of Yellow Creek, the values are generally high. Average values for calcium and strontium are the highest of all stations.

New data for Yellow Creek near White River, Colorado, are presented for the months of July, August, and September. As in the past, many constituents show relatively high values compared to stations on or near Tract C-a. Compared to stations with more consistent yearly flows, a few values are consistently low. These are silica, and calcium with yearly averages of 9.7 mg/l and 23.0 mg/l, resectively. The values reported don't seem to have increased significantly from last quarter. Decreases since the last reporting period are noted in hardness, and nitrite plus nitrate. Fluctuating values occurred this period in ammonia, carbonate, chloride, and kjeldahl nitrogen. Compared to smaller basins, Yellow Creek appears to have higher concentrations of all parameters, apparently due to greater groundwater discharge into Yellow Creek which probably serves as a regional drain.

The mean conductivity is plotted on Figures 1.2-12 through 1.2-17 for the surface gaging stations located at Corral Gulch east of Tract C-a, Box Elder Gulch near west line Tract C-a, Corral Gulch south of 84 Mesa, and Yellow Creek near White River, Colorado. These are the only five stations from which the USGS reported mean conductivities. Data are not collected during the winter from the stations which have recorded only intermittent spring and summer flow. Should unusual flows be observed, the stations will be reactivated.

Continuous mean conductivity for Corral Gulch near west line Tract C-a is included for water year 1976. Table 1.2-12 shows the continuous mean conductivity for water year 1976, and Table 1.2-13 shows the beginnging of water year 1977 for the Corral Gulch near west line Tract C-a location. New or revised data begins 21 June 1976 and continues to 29 October. There was an instrument malfunction from 20 July to 8 August. Conductivity during the remaining reporting period was generally stable with a mean value of 1005 umhos/cm.

Limited continuous specific conductance due to limited flow was available for Box Elder Gulch near west line Tract C-a. There is an insufficient amount of data available to make an analysis of the station. The data available are reported in the raw data section of this report. The new continuous mean conductivity

The new continuous mean conductivity data for Corral Gulch east of Tract C-a are available from 1 August to 5 November. Continuous mean conductivity generally remained in a range of 1000 umhos/cm to 1400 umhos/cm through 12 October. Values then dropped to a range of 800 to 700. The mean value over the reported period is 1100 umhos/cm.

The new mean continuous conductivity data for Corral Gulch south of 84 Mesa begins 1 August and continues to 27 September. Table 1.2-16 is a plot of continuous mean conductivity for water year 1976 for Corral Gulch south of 84 Mesa. Continuous mean conductivity is stable during August with an average of 1750 umhos/cm. At the end of August, a rise in mean conductivity occurs which then leads into a wide fluctuation of conductivity through the first half of September. In the second half of September, values then stabilize and average around 1775 umhos/cm. Over the entire reporting period, the mean value is 1760 umhos/cm.

The continuous mean conductivity values are available beginning in late May and run through September for the Yellow Creek gaging station near White River. These data are not complete since several time periods still have missing data. Data that have been previously reported for the time period of late July to mid-August have been revised. Figure 1.2-17 is a plot of the continuous mean conductivity. From the data available, widely fluctuating values can be seen over this period. The average mean value is 4050 umhos/cm.

The mean temperature data collected for four of the perennial stream gaging stations (Corral Gulch near west line Tract C-a, Corral Gulch east of Tract C-a, Corral Gulch south of 84 Mesa, and Yellow Creek near White River, Colorado) are shown on Figures 1.2-18 through 1.2-23. The general mean temperature shows a seasonal cooling trend as temperatures drop from the mid-summer high temperatures.

The mean temperature for Corral Gulch west of Tract C-a is shown in Figure 1.2-18 and Figure 1.2-19. No values for mean temperature are given from 6 September of 15 September due to instrument malfunction. The values show that the temperature fell sharply from the highs at the beginning of June, then rose to normal levels again but began to cool into the end of October. It should be noted that these data are preliminary.

Corral Gulch east of Tract C-a has new temperature data beginning 20 July and running to 5 November. The temperature followed the general trend of a high of 16.3^{o} C. on 31 July and then gradually dropped to 4° C. in November.

New temperature data for the Yellow Creek near White River, Colorado, station is available in part from 26 May to 23 September. The data show a drop from a high on 31 July to a low on 15 September and then a slight rise in temperature toward the end of the reporting period.

Temperature data for this reporting period for Corral Gulch south of 84 Mesa are presented on Figure 1.2-22. Temperatures declined to 10° C. in late September after reaching a high of 16° C. during August. No data could be reported from 21 July through 3 August because of instrument malfunction.

Instantaneous boron and fluoride analyses are shown of Figure 1.2-24 through 1.2-27 for stations: Box Elder Gulch near west line Tract C-a, Corral Gulch near west line Tract C-a, Corral Gulch east of Tract C-a, Corral Gulch south of 84 Mesa, and

Yellow Creek near White River, Colorado. Values have remained relatively stable except for fluoride at the station on Yellow Creek near White River, Colorado. Fluoride levels at Yellow Creek had been steadily rising, reaching 3.0 mg/l in August, but levels then dropped to 2.8 mg/l in September. Boron levels at Yellow Creek were relatively stable ranging from .58 mg/l to .86 mg/l.

There are three types of precipitation gages used for collecting data by the USGS for RBOSP: Storage precipitation gages allow precipitation to be collected and measured periodically; a recording-type gage allows the measurement of precipitation on a daily basis; and a rainfall intensity gage records the time of each rainfall event and measures precipitation depth at time increments of five minutes. Locations of the precipitation gaging stations are shown in Figure 1.2-1.

New recording-type precipitation data from near Cathedral Bluffs, Stake Springs Draw, and Yellow Creek covering a period from 1 September to 3 October indicate widespread rainfall events across the tract. Rainfall events occurred concurrently at all three recording-type precipitation gages six out of the thirteen days that precipitation was reported; four of the remaining days precipitation occurred, two of the stations concurrently reported precipitation. The Stake Springs recording station reported eight days of precipitation with an average of .12 inches and a maximum value of .21 inches. Cathedral Bluffs reported nine days when precipitation occurred with an average of .14 inches and a maximum value of .28 inches. Yellow Creek reported the fewest number (six) of days of precipitation. Precipitation for all stations for days when rainfall occurred averaged 0.13 inches per day of occurrence.

Storage-type precipitation gages from Dry Fork Gulch, Box Elder Gulch, and Corral Gulch generally correlate with recording-type gages for relative amounts of precipitation over the same time

Storage-type precipitation gages from Dry Fork Gulch, Box Elder Gulch, and Corral Gulch generally correlate with recording-type gages for relative amounts of precipitation over the same time period. New data at the storage-type precipitation gages begin 2 September and extend to 29 October at Corral Gulch and Dry Fork. Data at Box Elder extends to 23 November.

TABLE 1.2-3

SUMMARY WATER ANALYSIS

STREAM GAGING STATION, USGS 09306240
BOX ELDER GULCH NEAR WEST LINE TRACT C-a
YEAR 1976

ITEM	Mar.18	May 25	June 24			
Alkalinity (mg/l)	74	254	226			
Aluminum (ug/l)*	40	---	130			
Ammonia (NH_4) (mg/l)	.32	.01	.00			
Arsenic (ug/l)*	---	---	9			
Barium (ug/l)*	50	---	70			
Beryllium (ug/l)*	<1	---	<5			
Bicarbonbate (mg/l)	90	310	276			
Bismuth (ug/l)+	<4	---	<15			
BOD, 5-Day (mg/l)	---	---	1.0			
Boron (ug/l)	50	60	50			
Bromide(mg/l)*	0	---	0			
Cadmium (ug/l)*	1	---	0			
Calcium (mg/l)	17	54	50			
Carbonate (mg/l)	0	0	0			
Chloride (mg/l)	3.0	5.5	6.0			
Chromium (ug/l)*	3	---	10			
COD (mg/l)*	100	---	6.0			
Coliform, Fecal (Col/100 ml)*	---	---	200			
Coliform, Total (Col/100 ml)*	---	---	---			
Color (PCU)	100	12	7			
Conductivity, Specific (umhos)	400	750	850			
Copper (ug/l)*	17	---	2			
Cyanide (mg/l)*	.00	---	.00			
Dissolved Oxygen (mg/l)	---	6.7	---			
Fluoride (mg/l)	.1	.3	.3			
Gallium (ug/l)*	<1	---	<5			
Germanium (ug/l)*	<3	---	<20			
Hardness (Ca,Mg) (mg/l)	65	310	320			
Iron (ug/l)*	280	---	30			
Kjeldahl Nitrogen (N) (mg/l)	30	.42	.28			
Lead (ug/l)*	5	---	10			
Lithium (ug/l)*	0	---	20			
Magnesium (mg/l)	5.4	42	48			
Manganese (ug/l)*	30	---	<7			
MBAS (mg/l)*	---	---	---			
Mercury (ug/l)*	.0	---	.0			
Molybdenum (ug/l)	3	---	40			
Nickel (ug/l)*	<3	---	<10			
Nitrite Plus Nitrate (N) (mg/l)	.23	.72	.31			
Odor (Severity)	0	0	0			
Oil & Grease (mg/l)*	2	---	11			
Organic Carbon (mg/l)						
Dissolved	34	4.2	6.8			
Suspended	2.4	---	---			
Total+	---	---	---			
Pesticides (ug/l) +	0.0	---	0.0			
pH	8.1	8.1	7.7			
Phenols (ug/l)*	---	---	3			
Phosphate (mg/l)						
Dissolved PO_4	1.1	0	.03			
Ortho -P	.35	.00	.01			
Total -PO_4	2.5	1.7	.03			
Potassium (mg/l)	11	1.0	1.0			
Radioactivity*						
Gross Alpha[1] (pc/l)	3.9	---	< 7.7			
Radium 226 (pc/l)	---	---	---			
Natural Uranium (ug/l)	5.7	---	<11.4			
Gross Beta (pc/l)						
SR^{90} (pc/l)	13.7	---	5.8			
CE^{137} (pc/l)	16	---	9.8			
Selenium (ug/l)*	0	---	3			
Silica (mg/l)	3.2	24	21			
Silver (ug/l)+	<0	---	<2			
Sodium (mg/l)	2.7	51	59			
Sodium Adsorption Ratio	.1	1.3	1.4			
Solids, Dissolved (mg/l)	96	474	505			
Strontium (ug/l)*	200	---	920			
Sulfate (mg/l)	5.5	140	180			
Sulfide (mg/l)*	.2	---	1.1			
Temperature (°C)	3.0	24.0	14.5			
Tin (ug/l)+	<5	---	<10			
Titanium (ug/l)	<1	---	<7			
Turbidity (JTU)	---	---	---			
Vanadium (ug/l)*	<3.0	---	<10			
Zinc (ug/l)*	40	---	0			
Zirconium (ug/l)*	<5	---	<20			

* Quarterly or special sampling only.

\+ Required during first year baseline only

[1] U Nat as reference

TABLE 1.2-4

SUMMARY WATER ANALYSIS

STREAM GAGING STATION, USGS 09306235
CORRAL GULCH NEAR WEST LINE TRACT C-a
YEAR 1976

ITEM	Jan.2	May 25	June 24	July 21	Aug.19	Sep. 15
Alkalinity (mg/l)	340	278	257	294	317	331
Aluminum (ug/l)*	30	---	20	---	---	20
Ammonia (NH_4) (mg/l)	.12	.03	.03	.06	.04	.01
Arsenic (ug/l)*	4	---	7	---	---	8
Barium (ug/l)*	60	---	70	---	---	---
Beryllium (ug/l)*	<3	---	<6	---	---	---
Bicarbonbate (mg/l)	418	339	325	358	387	404
Bismuth (ug/l)+	<15	---	<20	---	---	---
BOD 5 Day (mg/l)	---	---	.7	2.7	.8	---
Boron (ug/l)	80	90	110	120	100	---
Bromide (mg/l)*	---	---	.1	---	---	.1
Cadmium (ug/l)*	7	---	1	---	---	0
Calcium (mg/l)	95	65	58	69	81	88
Carbonate (mg/l)	0	0	0	0	0	0
Chloride (mg/l)	11	12	8	8.8	9.8	8.2
Chromium (ug/l)*	<15	---	10	---	---	0
COD (mg/l)*	12	---	5	---	---	21
Coliform, Fecal (Col/100 ml)*	---	---	10	---	---	---
Coliform, Total (Col/100 ml)*	---	---	---	---	---	---
Color (PCU)		8	4	25	3	3
Conductivity, Specific (umhos)	1100	1050	1050	1000	1050	1100
Copper (ug/l)*	5	---	5	---	---	1
Cyanide (mg/l)*	.00	---	.00	---	---	0
Dissolved Oxygen (mg/l)	---	7.5	---	6.8	7.6	8.4
Fluoride (mg/l)	.3	.3	.3	.3	.3	.3
Gallium (ug/l)*	<7	---	<6	---	---	---
Germanium (ug/l)*	<40	---	<20	---	---	---
Hardness (Ca,Mg) (mg/l)	490	400	390	410	440	470
Iron (ug/l)*	30	---	30	---	---	10
Kjeldahl Nitrogen(N) (mg/l)	.69	.37	.42	.84	.59	.49
Lead (ug/l)*	< 2	---	3	---	---	1
Lithium (ug/l)*	20	---	20	---	---	20
Magnesium (mg/l)	60	58	58	58	57	60
Manganese (ug/l)*	20	---	<10	---	---	10
MBAS (mg/l)*	4.0	---	---	---	---	---
Mercury (ug/l)*	.0	---	.0	---	---	---
Molybdenum (ug/l)	40	---	23	---	---	30
Nickel (ug/l)*	<15	---	<15	---	---	---
Nitrite Plus Nitrate (N) (mg/l)	1.1	.52	.28	.53	.78	1.1
Odor (Severity)	0	0	0	1.0	0	0
Oil & Grease (mg/l)*	0	---	8	---	---	0
Organic Carbon (mg/l)						
Dissolved	14	4.6	7.4	16	7.3	9.2
Suspended	2.5	---	.3	.0	---	2.1
Total+	---	---	---	---	---	---
Pesticides (ug/l) +	0.0	---	.00	---	---	---
pH	---	7.9	8.1	8.3	7.9	8.1
Phenols (ug/l)*	---	---	3	---	---	1
Phosphate (mg/l)						
Dissolved - PO_4	.00	.00	.06	.00	.03	.03
Ortho -P	.00	.00	.02	.00	.01	.01
Total -PO_4	.06	.03	.03	.28	.00	.37
Potassium (mg/l)	1.5	1.4	1.5	2.8	1.6	1.6
Radioactivity*						
Gross Alpha [1] (pc/l)	6.7	---	7.0	---	---	11.7
Radium 226 (pc/l)	.08	---	---	---	---	.11
Natural Uranium (ug/l)	9.8	---	10.3	---	---	17.2
Gross Beta (pc/l)						
SR^{90} (pc/l)	5.6	---	3.2	---	---	6.5
CE^{137} (pc/l)	6.8	---	3.9	---	---	7.9
Selenium (ug/l)*	2	---	4	---	---	3
Silica (mg/l)	19	20	18	22	19	21
Silver (ug/l)+	<2	---	<2	---	---	---
Sodium (mg/l)	84	85	94	93	87	85
Sodium Adsorption Ratio	1.7	1.8	2.1	2.0	1.8	1.7
Solids, Dissolved (mg/l)	793	681	702	723	730	761
Strontium (ug/l)*	1300	---	1700	---	---	2000
Sulfate (mg/l)	310	270	300	290	280	290
Sulfide (mg/l)*	0.0	---	0.5	---	---	.6
Temperature (°C)		23.0	24.5	30.0	20.0	17
Tin (ug/l)+	<15	---	<15	---	---	---
Titanium (ug/l)	<10	---	<10	---	---	---
Turbidity (JTU)	---	---	---	---	---	---
Vanadium (ug/l)*	<15	---	<15	---	---	---
Zinc (ug/l)*	10	---	0	---	---	0
Zirconium (ug/l)*	<40	---	<30	---	---	---

* Quarterly or special sampling only.

\+ Required during first year baseline only.

[1] U Nat as reference.

TABLE 1.2-5

SUMMARY WATER ANALYSIS

STREAM GAGING STATION, USGS 09306242
CORRAL GULCH EAST OF TRACT C-a
YEAR 1976

ITEM	Jan.29	Feb.18	Mar.11	Apr.15	May 13	June 25	July 21	Aug. 19	Sept.16
Alkalinity (mg/l)	362	414	419	367	395	294	363	377	373
Aluminum (ug/l)*	10	10	20	---	---	20	---	---	0
Ammonia (NH_4) (mg/l)	.05	---	.05	.12	.13	.01	.04	.04	.04
Arsenic (ug/l)*	4	4	6	---	---	7	---	---	8
Barium (ug/l)*	---	---	60	---	---	60	---	---	---
Beryllium (ug/l)*	---	---	<4	---	---	<7	---	---	---
Bicarbonbate (mg/l)	441	505	511	448	481	358	442	460	455
Bismuth (ug/l)+	---	---	<25	---	---	<20	---	---	---
BOD 5 Day (mg/l)	---	---	---	2.6	---	---	2.0	2.2	---
Boron (ug/l)	140	120	100	150	180	90	120	110	120
Bromide (mg/l)*	---	---	.1	---	---	.1	---	---	.1
Cadmium (ug/l)*	---	---	1	---	---	10	---	---	0
Calcium (mg/l)	85	83	91	90	87	76	82	81	80
Carbonate (mg/l)	0	0	0	0	0	0	0	0	0
Chloride (mg/l)	10	9.4	12	11	12	10	11	11	11
Chromium (ug/l)*	---	---	<20	---	---	15	---	---	0
COD (mg/l)*	---	---	12	---	---	5	---	---	6
Coliform, Fecal (Col/100 ml)*	0	---	2	---	---	220	---	---	180
Coliform, Total (Col/100 ml)*	---	---	---	---	---	---	---	---	---
Color (PCU)	3	4	4	0	0	3	12	3	5
Conductivity, Specific (umhos)	1200	1300	1250	1300	1200	1150	1320	1000	1150
Copper (ug/l)*	---	---	3	---	---	6	---	---	3
Cyanide (mg/l)*	---	---	.00	---	---	.00	---	---	.00
Dissolved Oxygen (mg/l)	7.7	10.9	10.0	7.0	10.1	9.3	6.9	7.1	8.1
Fluoride (mg/l)	.4	.4	.4	.4	.4	.4	.4	.4	.4
Gallium (ug/l)*	---	---	<7	---	---	<7	---	---	---
Germanium (ug/l)*	---	---	<20	---	---	<20	---	---	---
Hardness (Ca,Mg) (mg/l)	470	460	520	510	480	430	430	450	440
Iron (ug/l)*	10	10	<20	---	---	60	---	---	10
Kjeldahl Nitrogen (N) (mg/l)	.40	.22	.11	---	.35	0	.92	.32	.49
Lead (ug/l)*	---	---	1	---	---	<15	---	---	2
Lithium (ug/l)*	---	---	20	---	---	20	---	---	20
Magnesium (mg/l)	63	60	70	69	65	57	55	60	59
Manganese (ug/l)*	---	---	40	---	---	<20	---	---	30
MBAS (mg/l)*	---	---	.1	---	---	---	---	---	---
Mercury (ug/l)*	---	---	0	---	---	0	---	---	0
Molybdenum (ug/l)	---	---	50	---	---	50	---	---	23
Nickel (ug/l)*	---	---	<20	---	---	<15	---	---	---
Nitrite Plus Nitrate (N) (mg/l)	.34	.37	.33	.32	<.32	.23	.18	.28	.54
Odor (Severity)	0	0	0	0	0	0	0	0	1
Oil & Grease (mg/l)*	---	---	0	---	---	11	---	---	.6
Organic Carbon (mg/l)									
Dissolved	14	6.7	4.2	---	---	1.7	12	.71	5.4
Suspended	.3	.3	.3	---	---	.4	1.1	1.1	.5
Total+	---	---	---	---	---	---	---	---	---
Pesticides (ug/l) +	---	---	0	---	---	---	---	---	0
pH	7.8	8.2	7.7	7.5	8.2	7.4	7.8	7.7	7.6
Phenols (ug/l)*	---	---	---	---	---	3	---	---	0
Phosphate (mg/l)									
Dissolved - PO_4	.03	.15	.03	.03	.03	.09	.01	.09	.06
Ortho - P	.01	.05	.01	.01	.01	.03	.01	.03	.02
Total - PO_4	.00	---	.12	---	.49	.03	.12	.09	.09
Potassium (mg/l)	1.5	1.4	1.7	2.4	1.5	1.4	1.7	1.7	1.3
Radioactivity*									
Gross Alpha[1] (pc/l)	---	---	<6.2	---	---	<8.4	---	---	<9.1
Radium 226 (pc/l)	---	---	.01	---	---	---	---	---	.06
Natural Uranium (ug/l)	---	---	<9.1	---	---	<12.4	---	---	<13.4
Gross Beta (pc/l)									
SR^{90} (pc/l)	---	---	3.7	---	---	2.5	---	---	3.5
CE^{137} (pc/l)	---	---	4.6	---	---	2.9	---	---	4.2
Selenium (ug/l)*	---	---	2	---	---	3	---	---	3
Silica (mg/l)	20	20	21	22	21	19	21	20	20
Silver (ug/l)+	---	---	<2	---	---	<2	---	---	---
Sodium (mg/l)	110	100	120	120	110	100	98	110	100
Sodium Adsorption Ratio	2.2	2.0	2.3	2.3	2.2	2.1	2.1	2.3	2.1
Solids, Dissolved (mg/l)	821	787	871	837	816	714	748	772	771
Strontium (ug/l)*	2000	1800	1700	---	---	1600	---	---	1800
Sulfate (mg/l)	310	260	300	300	280	270	260	260	270
Sulfide (mg/l)*	---	---	0	---	---	.6	---	---	.6
Temperature (°C)	8.5	8.5	9.0	12.0	13.0	17.0	22.0	18.0	12.0
Tin (ug/l)+	---	---	<20	---	---	<15	---	---	---
Titanium (ug/l)	---	---	<10	---	---	<10	---	---	---
Turbidity (JTU)	---	---	---	2	---	16	---	4.4	3
Vanadium (ug/l)*	---	---	<10	---	---	<15	---	---	---
Zinc (ug/l)*	---	---	10	---	---	20	---	---	10
Zirconium (ug/l)*	---	---	<30	---	---	<30	---	---	---

* Quarterly or special sampling only.

\+ Required during first year baseline only.

[1] U Nat as reference.

TABLE 1.2-6
SUMMARY WATER ANALYSIS

STREAM GAGING STATION, USGS 09306241
"RINKY DINK" GULCH NEAR EAST LINE TRACT C-a
YEAR 1976

ITEM	Feb.13	Mar. 18				
Alkalinity (mg/l)	73	72				
Aluminum (ug/l)*	250	---				
Ammonia (NH_4) (mg/l)	.12	.06				
Arsenic (ug/l)*	.3	---				
Barium (ug/l)*	.0	---				
Beryllium (ug/l)*	---	---				
Bicarbonbate (mg/l)	89	88				
Bismuth (ug/l)+	---	---				
BOD 5 Day (mg/l)	---	---				
Boron (ug/l)	100	50				
Bromide (mg/l)*	---	0				
Cadmium (ug/l)*	1	---				
Calcium (mg/l)	11	17				
Carbonate (mg/l)	0	0				
Chloride (mg/l)	1.8	1.7				
Chromium (ug/l)*	0	---				
COD (mg/l)*	240	---				
Coliform, Fecal (Col/100 ml)*	---	---				
Coliform, Total (Col/100 ml)*	---	---				
Color (PCU)	---	20				
Conductivity, Specific (umhos)	160	190				
Copper (ug/l)*	13	---				
Cyanide (mg/l)*	.00	---				
Dissolved Oxygen (mg/l)	---	---				
Fluoride (mg/l)	.3	.2				
Gallium (ug/l)*	---	---				
Germanium (ug/l)*	---	---				
Hardness (Ca,Mg) (mg/l)	37	55				
Iron (ug/l)*	280	---				
Kjeldahl Nitrogen (N) (mg/l)	1.1	.39				
Lead (ug/l)*	10	---				
Lithium (ug/l)*	10	---				
Magnesium (mg/l)	2.2	3.0				
Manganese (ug/l)*	---	---				
MBAS (mg/l)*	.0	---				
Mercury (ug/l)*	.1	---				
Molybdenum (ug/l)	---	---				
Nickel (ug/l)*	---	---				
Nitrite Plus Nitrate (N) (mg/l)	.72	.61				
Odor (Severity)	0	0				
Oil & Grease (mg/l)*	---	---				
Organic Carbon (mg/l)						
Dissolved	67	34				
Suspended	3.9	<10				
Total+	---	---				
Pesticides (ug/l) +	---	---				
pH	8.5	8.4				
Phenols (ug/l)*	---	---				
Phosphate (mg/l)						
Dissolved - PO_4	.25	.09				
Ortho -P	.08	.03				
Total -PO_4	2.1	7.7				
Potassium (mg/l)	2.3	2.9				
Radioactivity*						
Gross Alpha [1] (pc/l)	---	---				
Radium 226 (pc/l)	---	---				
Natural Uranium (ug/l)	---	---				
Gross Beta (pc/l)						
SR^{90} (pc/l)	---	---				
CE^{137} (pc/l)	---	---				
Selenium (ug/l)*	0	---				
Silica (mg/l)	5.0	5.8				
Silver (ug/l)+	---	---				
Sodium (mg/l)	24	16				
Sodium Adsorption Ratio	1.7	.9				
Solids, Dissolved (mg/l)	102	98				
Strontium (ug/l)*	100	---				
Sulfate (mg/l)	6.8	5.3				
Sulfide (mg/l)*	---	---				
Temperature (^oC)	1.0	8.0				
Tin (ug/l)+	---	---				
Titanium (ug/l)	---	---				
Turbidity (JTU)	---	---				
Vanadium (ug/l)*	---	---				
Zinc (ug/l)*	90	---				
Zirconium (ug/l)*	---	---				

* Quarterly or special sampling only.

\+ Required during first year baseline only.

[1] U Nat as reference.

TABLE 1.2-7

SUMMARY WATER ANALYSIS

STREAM GAGING STATION, USGS 09306230
STAKE SPRINGS DRAW NEAR CONFLUENCE WITH
CORRAL GULCH
YEAR 1976

ITEM	Feb.13					
Alkalinity (mg/l)	114					
Aluminum (ug/l)*	100					
Ammonia (NH_4) (mg/l)	.14					
Arsenic (ug/l)*	2					
Barium (ug/l)*	---					
Beryllium (ug/l)*	---					
Bicarbonbate (mg/l)	139					
Bismuth (ug/l)+	---					
BOD, 5-Day (mg/l)	---					
Boron (ug/l)	160					
Bromide (mg/l)*	---					
Cadmium (ug/l)*	---					
Calcium (mg/l)	26					
Carbonate (mg/l)	1.0					
Chloride (mg/l)	4.2					
Chromium (ug/l)*	---					
COD (mg/l)*	---					
Coliform, Fecal (Col/100 ml)*	---					
Coliform, Total (Col/100 ml)*	---					
Color (PCU)	100					
Conductivity, Specific (umhos)	280					
Copper (ug/l)*	---					
Cyanide (mg/l)*	---					
Dissolved Oxygen (mg/l)	---					
Fluoride (mg/l)	.1					
Gallium (ug/l)*	---					
Germanium (ug/l)*	---					
Hardness (Ca,Mg) (mg/l)	94					
Iron (ug/l)*	180					
Kjeldahl Nitrogen (N) (mg/l)	2.4					
Lead (ug/l)*	---					
Lithium (ug/l)*	---					
Magnesium (mg/l)	6.9					
Manganese (ug/l)*	---					
MBAS (mg/l)*	---					
Mercury (ug/l)*	---					
Molybdenum (ug/l)	---					
Nickel (ug/l)*	---					
Nitrite Plus Nitrate (N) (mg/l)	.42					
Odor (Severity)	0					
Oil & Grease (mg/l)*	---					
Organic Carbon (mg/l)	---					
Dissolved	67					
Suspended	1.4					
Total+	---					
Pesticides (ug/l) +	---					
pH	8.4					
Phenols (ug/l)*	---					
Phosphate (mg/l)						
Dissolved - PO_4	.49					
Ortho -P	.16					
Total -PO_4	1.0					
Potassium (mg/l)	5.4					
Radioactivity*						
Gross Alpha[1] (pc/l)	---					
Radium 226 (pc/l)	---					
Natural Uranium (ug/l)	---					
Gross Beta (pc/l)						
SR^{90} (pc/l)	---					
CE^{137} (pc/l)	---					
Selenium (ug/l)*	---					
Silica (mg/l)	5.3					
Silver (ug/l)+	---					
Sodium (mg/l)	17					
Sodium Adsorption Ratio	.8					
Solids, Dissolved (mg/l)	154					
Strontium (ug/l)*	390					
Sulfate (mg/l)	17					
Sulfide (mg/l)*	---					
Temperature (^oC)	3.0					
Tin (ug/l)+	---					
Titanium (ug/l)	---					
Turbidity (JTU)	---					
Vanadium (ug/l)*	---					
Zinc (ug/l)*	---					
Zirconium (ug/l)*	---					

* Quarterly or special sampling only.

\+ Required during first year baseline only

[1] U Nat as reference

TABLE 1.2-8

SUMMARY WATER ANALYSIS

STREAM GAGING STATION, USGS 09306244
CORRAL GULCH SOUTH OF 84 MESA
YEAR 1976

ITEM	Jan.29	Feb.18	Mar.11	May 13	June 26	July 22	Aug. 20	Sept. 16
Alkalinity (mg/l)	523	505	489	469	513	472	507	437
Aluminum (ug/l)*	10	10	<20	---	40	---	---	0
Ammonia (NH_4) (mg/l)	.06	.19	.10	.05	.00	.00	.09	0
Arsenic (ug/l)*	2	2	4	---	6	---	---	7
Barium (ug/l)*	---	---	200	---	100	---	---	---
Beryllium (ug/l)*	---	---	<5	---	<10	---	---	---
Bicarbonbate (mg/l)	638	616	596	572	626	575	618	533
Bismuth (ug/l)+	---	---	<35	---	<40	---	---	---
BOD 5-Day (mg/l)	---	---	---	3.6	---	1.65	2.30	---
Boron (ug/l)	180	160	150	40	140	210	200	220
Bromide (mg/l)*	---	---	.1	---	.2	---	---	.3
Cadmium (ug/l)*	---	---	1	---	0	---	---	0
Calcium (mg/l)	110	110	110	100	100	110	100	84
Carbonate (mg/l)	0	0	0	0	0	0	0	0
Chloride (mg/l)	18	19	16	17	18	18	19	18
Chromium (ug/l)*	---	---	<25	---	<30	---	---	0
COD (mg/l)*	---	---	26	---	6	---	---	15
Coliform, Fecal (Col/100 ml)*	---	---	2	---	58	---	---	20
Coliform, Total (Col/100 ml)*	---	---	---	---	---	---	---	---
Color (PCU)	4	15	15	5	6	18	8	8
Conductivity, Specific (umhos)	1750	1900	1700	1820	1760	1800	1880	1700
Copper (ug/l)*	---	---	2	---	7	---	---	1
Cyanide (mg/l)*	---	---	.00	---	.01	---	---	.00
Dissolved Oxygen (mg/l)	5.1	11.2	13.4	9.2	9.5	8.9	8.2	9.8
Fluoride (mg/l)	.3	.4	.3	.3	.3	.4	.3	.4
Gallium (ug/l)*	---	---	<10	---	<10	---	---	---
Germanium (ug/l)*	---	---	<30	---	<40	---	---	---
Hardness (Ca,Mg) (mg/l)	730	690	680	660	710	730	660	670
Iron (ug/l)*	20	30	<30	---	30	---	---	20
Kjeldahl Nitrogen (N) (mg/l)	.76	1.0	.96	.46	.42	.63	.35	.27
Lead (ug/l)*	---	---	< 1	---	2	---	---	1
Lithium (ug/l)*	---	---	10	---	20	---	---	10
Magnesium (mg/l)	110	100	97	100	110	110	100	110
Manganese (ug/l)*	---	---	60	---	220	---	---	20
MBAS (mg/l)*	---	---	.1	---	---	---	---	---
Mercury (ug/l)*	---	---	0	---	0	---	---	0
Molybdenum (ug/l)	---	---	60	---	60	---	---	44
Nickel (ug/l)*	---	---	<25	---	<30	---	---	---
Nitrite Plus Nitrate (N) (mg/l)	.71	.85	.68	<.04	.09	.00	.03	00
Odor (Severity)	0	0	0	0	0	1	1	1
Oil & Grease (mg/l)*	---	---	0	---	7	---	---	0
Organic Carbon (mg/l)								
Dissolved	11	13	13	7.4	9.6	39	---	9.6
Suspended	.4	.7	.3	---	---	---	---	.8
Total+	---	---	---	---	---	---	---	---
Pesticides (ug/l) +	---	---	.00	---	.00	---	---	---
pH	7.8	8.2	8.3	8.2	7.4	8.0	8.1	8.2
Phenols (ug/l)*	---	---	---	---	3	---	---	3
Phosphate (mg/l)								
Dissolved - PO_4	.06	.03	.09	.00	.09	.06	.09	.09
Ortho - P	.02	.01	.03	.00	.03	.02	.03	.03
Total - PO_4	.00	.15	.18	2.6	---	.09	.21	---
Potassium (mg/l)	2.6	2.7	3.0	2.6	2.9	2.7	3.1	2.9
Radioactivity*								
Gross Alpha [1] (pc/l)	---	---	<8.4	---	<15.4	---	---	<15.0
Radium 226 (pc/l)	---	---	.02	---	---	---	---	.05
Natural Uranium (ug/l)	---	---	<12.4	---	22.6	---	---	22
Gross Beta (pc/l)								
SR^{90} (pc/l)	---	---	10.6	---	15.2	---	---	5.7
CE^{137} (pc/l)	---	---	13.2	---	19.4	---	---	6.5
Selenium (ug/l)*	---	---	2	---	1	---	---	2
Silica (mg/l)	17	18	20	17	18	19	20	18
Silver (ug/l)+	---	---	<3	---	<4	---	---	---
Sodium (mg/l)	190	170	170	190	200	190	190	190
Sodium Adsorption Ratio	3.1	2.8	2.9	3.2	3.3	3.1	3.2	3.2
Solids, Dissolved (mg/l)	1380	1240	1210	1230	1340	1310	1300	1250
Strontium (ug/l)*	2800	2700	2300	---	2500	---	---	2600
Sulfate (mg/l)	610	510	490	520	580	580	560	560
Sulfide (mg/l)*	---	---	.2	---	.5	---	---	.5
Temperature (°C)	6.0	8.0	9.0	21.0	20.5	23.0	20.0	19.0
Tin (ug/l)+	---	---	<20	---	<30	---	---	---
Titanium (ug/l)	---	---	<20	---	<20	---	---	---
Turbidity (JTU)	---	---	---	---	---	---	---	---
Vanadium (ug/l)*	---	---	<15	---	<30	---	---	---
Zinc (ug/l)*	---	---	10	---	20	---	---	10
Zirconium (ug/l)*	---	---	<40	---	<50	---	---	---

* Quarterly or special sampling only.

\+ Required during first year baseline only.

[1] U Nat as reference.

TABLE 1.2-9
SUMMARY WATER ANALYSIS

STREAM GAGING STATION, USGS 09306246
TRIBUTARY TO YELLOW CREEK EAST OF 84 MESA
YEAR 1976

ITEM	Feb.13					
Alkalinity (mg/l)	99					
Aluminum (ug/l)*	30					
Ammonia (NH_4) (mg/l)	.98					
Arsenic (ug/l)*	1					
Barium (ug/l)*	---					
Beryllium (ug/l)*	---					
Bicarbonbate (mg/l)	121					
Bismuth (ug/l)+	---					
BOD 5 Day (mg/l)	---					
Boron (ug/l)	110					
Bromide (mg/l)*	---					
Cadmium (ug/l)*	---					
Calcium (mg/l)	18					
Carbonate (mg/l)	0					
Chloride (mg/l)	1.9					
Chromium (ug/l)*	---					
COD (mg/l)*	---					
Coliform, Fecal (Col/100 ml)*	---					
Coliform, Total (Col/100 ml)*	---					
Color (PCU)	450					
Conductivity, Specific (umhos)	100					
Copper (ug/l)*	---					
Cyanide (mg/l)*	---					
Dissolved Oxygen (mg/l)	---					
Fluoride (mg/l)	.1					
Gallium (ug/l)*	---					
Germanium (ug/l)*	---					
Hardness (Ca,Mg) (mg/l)	52					
Iron (ug/l)*	230					
Kjeldahl Nitrogen (N) (mg/l)	1.1					
Lead (ug/l)*	---					
Lithium (ug/l)*	---					
Magnesium (mg/l)	1.7					
Manganese (ug/l)*	---					
MBAS (mg/l)*	---					
Mercury (ug/l)*	---					
Molybdenum (ug/l)	---					
Nickel (ug/l)*	---					
Nitrite Plus Nitrate (N) (mg/l)	.34					
Odor (Severity)	0					
Oil & Grease (mg/l)*	---					
Organic Carbon (mg/l)						
Dissolved	76					
Suspended	6.6					
Total+	---					
Pesticides (ug/l) +	---					
pH	8.5					
Phenols (ug/l)*	---					
Phosphate (mg/l)						
Dissolved - PO_4	.15					
Ortho-p	.05					
Total-PO_4	8.6					
Potassium (mg/l)	1.5					
Radioactivity*						
Gross Alpha [1] (pc/l)	---					
Radium 226 (pc/l)	---					
Natural Uranium (ug/l)	---					
Gross Beta (pc/l)						
SR^{90} (pc/l)	---					
CE^{137} (pc/l)	---					
Selenium (ug/l)*						
Silica (mg/l)	5.6					
Silver (ug/l)+	---					
Sodium (mg/l)	7.3					
Sodium Adsorption Ratio	.4					
Solids, Dissolved (mg/l)	104					
Strontium (ug/l)*	180					
Sulfate (mg/l)	5.1					
Sulfide (mg/l)*	---					
Temperature (^{o}C)	.5					
Tin (ug/l)+	---					
Titanium (ug/l)	---					
Turbidity (JTU)	---					
Vanadium (ug/l)*	---					
Zinc (ug/l)*	---					
Zirconium (ug/l)*	---					

* Quarterly or special sampling only.

\+ Required during first year baseline only.

[1] U Nat as reference.

TABLE 1.2-10

SUMMARY WATER ANALYSIS

STREAM GAGING STATION, USGS 09306248
UPPER BIG DUCK CREEK NORTH OF 84 MESA
YEAR 1976

ITEM	Feb.13					
Alkalinity (mg/l)	107					
Aluminum (ug/l)*	230					
Ammonia (NH_4) (mg/l)	.84					
Arsenic (ug/l)*	4					
Barium (ug/l)*	100					
Beryllium (ug/l)*	<1					
Bicarbonbate (mg/l)	131					
Bismuth (ug/l)+	<4					
BOD 5 Day (mg/l)	---					
Boron (ug/l)	170					
Bromide(mg/l)*	.1					
Cadmium (ug/l)*	<3					
Calcium (mg/l)	20					
Carbonate (mg/l)	0					
Chloride (mg/l)	4.8					
Chromium (ug/l)*	<3					
COD (mg/l)*	76					
Coliform, Fecal (Col/100 ml)*	---					
Coliform, Total (Col/100 ml)*	---					
Color (PCU)	180					
Conductivity, Specific (umhos)	220					
Copper (ug/l)*	10					
Cyanide (mg/l)*	.00					
Dissolved Oxygen (mg/l)	---					
Fluoride (mg/l)	.1					
Gallium (ug/l)*	<2					
Germanium (ug/l)*	<4					
Hardness (Ca,Mg) (mg/l)	73					
Iron (ug/l)*	170					
Kjeldahl Nitrogen (N) (mg/l)	3.8					
Lead (ug/l)*	<4					
Lithium (ug/l)*	2					
Magnesium (mg/l)	5.6					
Manganese (ug/l)*	20					
MBAS (mg/l)*	---					
Mercury (ug/l)*	.1					
Molybdenum (ug/l)	5					
Nickel (ug/l)*	<4					
Nitrite Plus Nitrate (N) (mg/l)	.45					
Odor (Severity)	0					
Oil & Grease (mg/l)*	2					
Organic Carbon (mg/l)						
Dissolved	---					
Suspended	---					
Total+	---					
Pesticides (ug/l) +	---					
pH	8.3					
Phenols (ug/l)*	---					
Phosphate (mg/l)						
Dissolved $-PO_4$	.49					
Ortho -P	.16					
Total $-PO_4$	---					
Potassium (mg/l)	15					
Radioactivity*						
Gross Alpha[1] (pc/l)	20.0					
Radium 226 (pc/l)	---					
Natural Uranium (ug/l)	29.4					
Gross Beta (pc/l)						
SR^{90} (pc/l)	33					
CE^{137} (pc/l)	41					
Selenium (ug/l)*	0					
Silica (mg/l)	5.2					
Silver (ug/l)+	0					
Sodium (mg/l)	18					
Sodium Adsorption Ratio	.9					
Solids, Dissolved (mg/l)	149					
Strontium (ug/l)*	220					
Sulfate (mg/l)	12					
Sulfide (mg/l)*	.8					
Temperature (^oC)	.5					
Tin (ug/l)+	<4					
Titanium (ug/l)	10					
Turbidity (JTU)	---					
Vanadium (ug/l)*	<4.0					
Zinc (ug/l)*	20					
Zirconium (ug/l)*	<8					

* Quarterly or special sampling only.

\+ Required during first year baseline only.

[1] U Nat as reference.

TABLE 1.2-11

SUMMARY WATER ANALYSIS

STREAM GAGING STATION, USGS 09306250
LOWER BIG DUCK CREEK NORTH OF 84 MESA
YEAR 1976

ITEM	Feb.14					
Alkalinity (mg/l)	135					
Aluminum (ug/l)*	200					
Ammonia (NH_4) (mg/l)	.44					
Arsenic (ug/l)*	2					
Barium (ug/l)*	100					
Beryllium (ug/l)*	---					
Bicarbonbate (mg/l)	164					
Bismuth (ug/l)+	---					
BOD, 5-Day (mg/l)	---					
Boron (ug/l)	130					
Bromide (mg/l)*	0					
Cadmium (ug/l)*	1					
Calcium (mg/l)	22					
Carbonate (mg/l)	0					
Chloride (mg/l)	4.2					
Chromium (ug/l)*	0					
COD (mg/l)*	87					
Coliform, Fecal (Col/100 ml)*	---					
Coliform, Total (Col/100 ml)*	---					
Color (PCU)	180					
Conductivity, Specific (umhos)	320					
Copper (ug/l)*	14					
Cyanide (mg/l)*	.00					
Dissolved Oxygen (mg/l)	---					
Fluoride (mg/l)	.1					
Gallium (ug/l)*	---					
Germanium (ug/l)*	---					
Hardness (Ca,Mg) (mg/l)	78					
Iron (ug/l)*	340					
Kjeldahl Nitrogen (N) (mg/l)	3.1					
Lead (ug/l)*	7					
Lithium (ug/l)*	10					
Magnesium (mg/l)	5.6					
Manganese (ug/l)*	---					
MBAS (mg/l)*	.0					
Mercury (ug/l)*	.1					
Molybdenum (ug/l)	---					
Nickel (ug/l)*	---					
Nitrite Plus Nitrate (N)(mg/l)	.52					
Odor (Severity)	0					
Oil & Grease (mg/l)*	---					
Organic Carbon (mg/l)						
Dissolved	---					
Suspended	---					
Total+	---					
Pesticides (ug/l) +						
pH	8.7					
Phenols (ug/l)*	---					
Phosphate (mg/l)						
Dissolved - PO_4	.52					
Ortho -P	.17					
Total -PO_4	1.5					
Potassium (mg/l)	13					
Radioactivity*						
Gross Alpha[1] (pc/l)	9.9					
Radium 226	---					
Natural Uranium (ug/l)	14.6					
Gross Beta (pc/l)						
SR^{90} (pc/l)	25					
CE^{137} (pc/l)	30.5					
Selenium (ug/l)*	0					
Silica (mg/l)	5.8					
Silver (ug/l)+	---					
Sodium (mg/l)	25					
Sodium Adsorption Ratio	1.2					
Solids, Dissolved (mg/l)	172					
Strontium (ug/l)*	260					
Sulfate (mg/l)	11					
Sulfide (mg/l)*	---					
Temperature (^oC)	.5					
Tin (ug/l)+	---					
Titanium (ug/l)	---					
Turbidity (JTU)	---					
Vanadium (ug/l)*	---					
Zinc (ug/l)*	50					
Zirconium (ug/l)*	---					

* Quarterly or special sampling only.

\+ Required during first year baseline only

[1] U Nat as reference

TABLE 1.2-12

SUMMARY WATER ANALYSIS

STREAM GAGING STATION, USGS 09306255
YELLOW CREEK NEAR WHITE RIVER, COLORADO
YEAR 1976

ITEM	Jan.28	Feb. 26	Mar.30	Apr. 5	May 25	June 23	July 19	Aug.12	Sept. 23
Alkalinity (mg/l)	1670	1280	1530	1520	---	1660	1560	1640	1570
Aluminum (ug/l)*	20	50	110	---	---	0	---	---	30
Ammonia (NH_4) (mg/l)	.35	.30	.18	.00	.04	.01	.01	.00	.04
Arsenic (ug/l)*	4	6	---	---	---	---	---	---	10
Barium (ug/l)*	---	---	200	---	---	100	---	---	---
Beryllium (ug/l)*	---	---	<10	---	---	<20	---	---	---
Bicarbonbate (mg/l)	1460	596	1380	1580	---	1990	1410	1470	1920
Bismuth (ug/l)+	---	---	<70	---	---	<70	---	---	---
BOD 5 Day (mg/l)	---	---	---	---	5.8	1.0	2.0	---	---
Boron (ug/l)	690	580	780	680	750	820	860	790	780
Bromide (mg/l)*	---	---	.3	---	---	.2	---	---	.7
Cadmium (ug/l)*	---	---	1	---	---	0	---	---	0
Calcium (mg/l)	35	39	34	32	7.4	25	19	21	17
Carbonate (mg/l)	283	478	240	136	---	17	242	262	0
Chloride (mg/l)	156	130	140	140	140	150	160	200	150
Chromium (ug/l)*	---	---	<50	---	---	0	---	---	0
COD (mg/l)*	---	---	15	---	---	60	---	---	17
Coliform, Fecal (Col/100 ml)*	---	B 600	620	420	460	110	---	---	---
Coliform, Total (Col/100 ml)*	---	---	---	---	---	---	---	---	---
Color (PCU)	5	20	10	20	22	20	22	17	18
Conductivity, Specific (umhos)	3880	3350	3700	4000	3830	4000	3780	3900	3700
Copper (ug/l)*	---	---	6	---	---	0	---	---	2.0
Cyanide (mg/l)*	---	---	.00	---	---	.00	---	---	.00
Dissolved Oxygen (mg/l)	12.2	10.9	11.1	8.5	---	6.0	5.6	6.7	7.4
Fluoride (mg/l)	2.5	2.0	2.4	2.6	2.6	2.8	2.8	3.0	2.8
Gallium (ug/l)*	---	---	<20	---	---	<20	---	---	---
Germanium (ug/l)*	---	---	<70	---	---	<70	---	---	---
Hardness (Ca,Mg) (mg/l)	590	550	500	530	510	480	450	460	460
Iron (ug/l)*	20	20	70	---	---	80	---	---	30
Kjeldahl Nitrogen (N) (mg/l)	1.0	.90	---	.47	.44	.39	1.0	.60	.34
Lead (ug/l)*	---	---	6.0	---	---	<50	---	---	2.0
Lithium (ug/l)*	---	---	150	---	---	180	---	---	180
Magnesium (mg/l)	120	110	100	110	120	100	97	100	100
Manganese (ug/l)*	---	---	<30	---	---	0	---	---	10
MBAS (mg/l)*	---	---	.3	---	---	---	---	---	---
Mercury (ug/l)*	---	---	.0	---	---	---	---	---	0
Molybdenum (ug/l)	---	---	80	---	---	20	---	---	21
Nickel (ug/l)*	---	---	<50	---	---	<50	---	---	---
Nitrite Plus Nitrate (N) (mg/l)	1.6	1.2	1.0	.51	.01	.01	.00	.01	.04
Odor (Severity)	0	0	0	0	0	0	0	0	0
Oil & Grease (mg/l)*	---	---	0	---	---	0	---	---	0
Organic Carbon (mg/l)									
Dissolved	6.9	11	12	---	4.3	6.4	43	6.1	7.8
Suspended	---	2.4	1.1	1.0	---	.3	---	.8	1.4
Total+	---	---	---	---	---	---	---	---	---
Pesticides (ug/l) +	---	---	0.0	---	---	---	---	---	0.0
pH	8.7	8.7	8.5	8.6	8.8	8.9	8.9	8.5	8.2
Phenols (ug/l)*	---	---	---	---	---	0	---	---	1
Phosphate (mg/l)									
Dissolved - PO_4	.28	.21	.28	.09	.00	.03	.00	.03	.12
Ortho -P	.09	.07	.09	.03	.00	.01	.00	.01	.04
Total -PO_4	.49	1.4	.37	.74	.21	.06	.06	.28	---
Potassium (mg/l)	4.2	4.1	7.0	5.0	4.4	4.0	5.5	4.9	5.1
Radioactivity*									
Gross Alpha[1] (pc/l)	---	---	<81	---	---	34.7	---	---	46
Radium 226 (pc/l)	---	---	---	---	---	---	---	---	.12
Natural Uranium (ug/l)	---	---	<120	---	---	51.1	---	---	68
Gross Beta (pc/l)									
SR^{90} (pc/l)	---	---	53	---	---	< 7.4	---	---	4.5
CE^{137} (pc/l)	---	---	63	---	---	< 9.1	---	---	46.1
Selenium (ug/l)*	---	---	1	---	---	---	---	---	2
Silica (mg/l)	13	14	12	11	9.6	8.5	6.8	7.3	5.5
Silver (ug/l)+	---	---	<5	---	---	<5	---	---	---
Sodium (mg/l)	850	640	830	800	850	940	880	890	840
Sodium Adsorption Ratio	15	12	16	15	16	19	18	18	17
Solids, Dissolved (mg/l)	2760	2240	2620	2650	---	2860	2700	2730	2560
Strontium (ug/l)*	3100	3200	2700	---	---	3300	---	---	2800
Sulfate (mg/l)	570	520	570	630	620	630	590	520	490
Sulfide (mg/l)*	---	---	.6	---	---	.0	---	---	.3
Temperature (°C)	.0	1.0	1.0	16.0	27.0	17.5	28.0	24.0	22.0
Tin (ug/l)+	---	---	<50	---	---	<50	---	---	---
Titanium (ug/l)	---	---	<20	---	---	<30	---	---	---
Turbidity (JTU)	---	---	---	---	---	---	---	---	---
Vanadium (ug/l)*	---	---	<40	---	---	<50	---	---	---
Zinc (ug/l)*	---	---	0	---	---	10	---	---	10
Zirconium (ug/l)*	---	---	<100	---	---	<100	---	---	---

* Quarterly or special sampling only.

\+ Required during first year baseline only.

B Coliform count non ideal.

[1] U Nat as reference

TABLE 1.2-13

PRECIPITATION SUMMARY

1976

Recording-Type Rain Gage Locations	JULY			AUGUST			SEPTEMBER		
	Maximum	Total	Number of Days	Maximum	Total	Number of Days	Maximum	Total	Number of Days
Stake Springs Draw near confluence with Corral Gulch	0.38	0.97	6	0.09	0.42	7	0.21	0.82	8
Yellow Creek near White River, Colorado	0.50	1.08	7	0.24	0.66	6	0.22	0.73	6
Cathedral Bluffs located in NW¼, NW¼, Sec. 14, T2S, R100W	0.87	2.04	7	0.45	1.09	6	0.28	1.40	9

APPROXIMATE MONTHLY TOTAL (IN.)

Storage Type Rain Gage Locations	JULY	AUGUST	SEPTEMBER
Dry Fork near west line Tract C-a	0.88	1.44	1.04
Box Elder Gulch near west line Tract C-a	0.73	1.35	0.89
Corral Gulch near west line Tract C-a	0.71	0.83	0.91

PRECIPITATION SUMMARY
(CONTINUED)
1976

Recording-Type Rain Gage Locations	OCTOBER Maximum	OCTOBER Total	OCTOBER Number of Days	Maximum	Total	Number of Days	Maximum	Total	Number of Days
Stake Springs Draw near confluence with Corral Gulch									
Yellow Creek near White River									
Cathedral Bluffs located in NW¼, NW¼, Sec. 14, T2S, R100W									

APPROXIMATE MONTHLY TOTAL (IN.)

Storage-Type Rain Gage Locations	OCTOBER			
Dry Fork near west line Tract C-a	0.33			
Box Elder Gulch near west line Tract C-a	0.41			
Corral Gulch near west line Tract C-a	0.29			

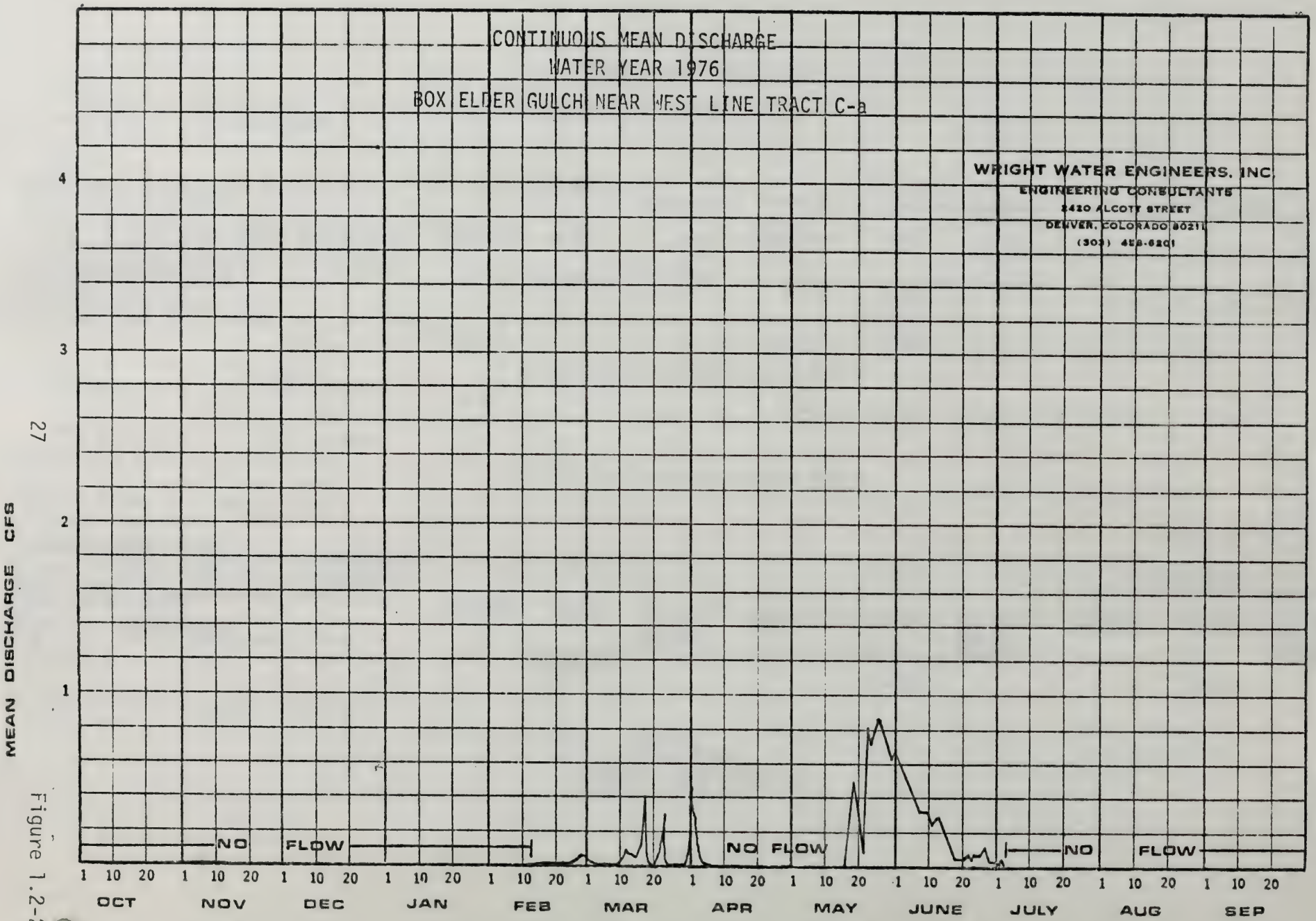

CONTINUOUS MEAN DISCHARGE
WATER YEAR 1976
BOX ELDER GULCH NEAR WEST LINE TRACT C-a
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
MEAN DISCHARGE CFS
4
3
2
1
NO FLOW
NO FLOW
NO FLOW
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEP
1975
1976

Figure 1.2-2

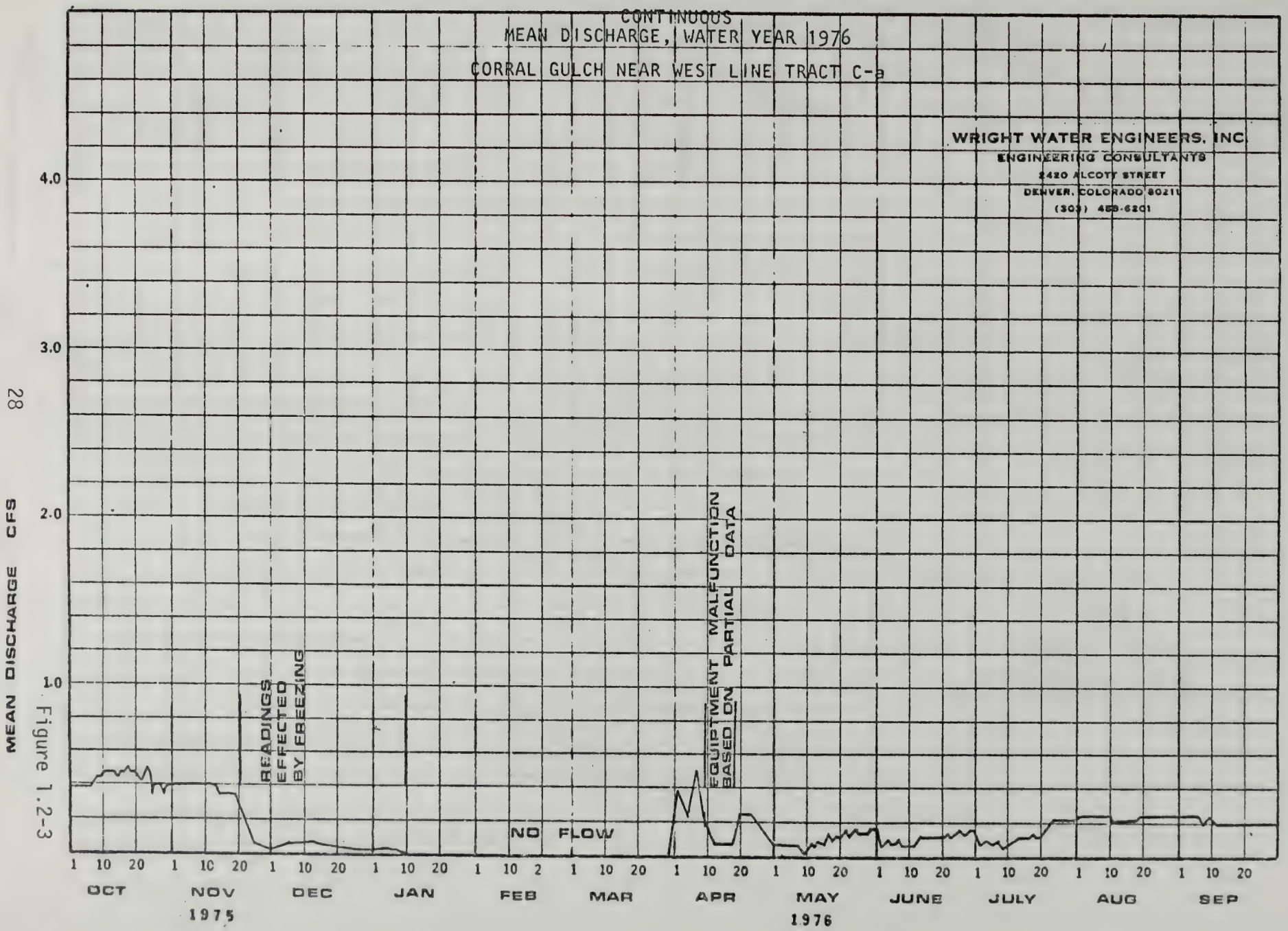

CONTINUOUS
MEAN DISCHARGE, WATER YEAR 1976
CORRAL GULCH NEAR WEST LINE TRACT C-a
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 455-6201
MEAN DISCHARGE CFS
4.0
3.0
2.0
1.0
READINGS EFFECTED BY FREEZING
EQUIPTMENT MALFUNCTION BASED ON PARTIAL DATA
NO FLOW
1 10 20 1 10 20 1 10 20 1 10 20 1 10 2 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEP
1975
1976

Figure 1.2-3

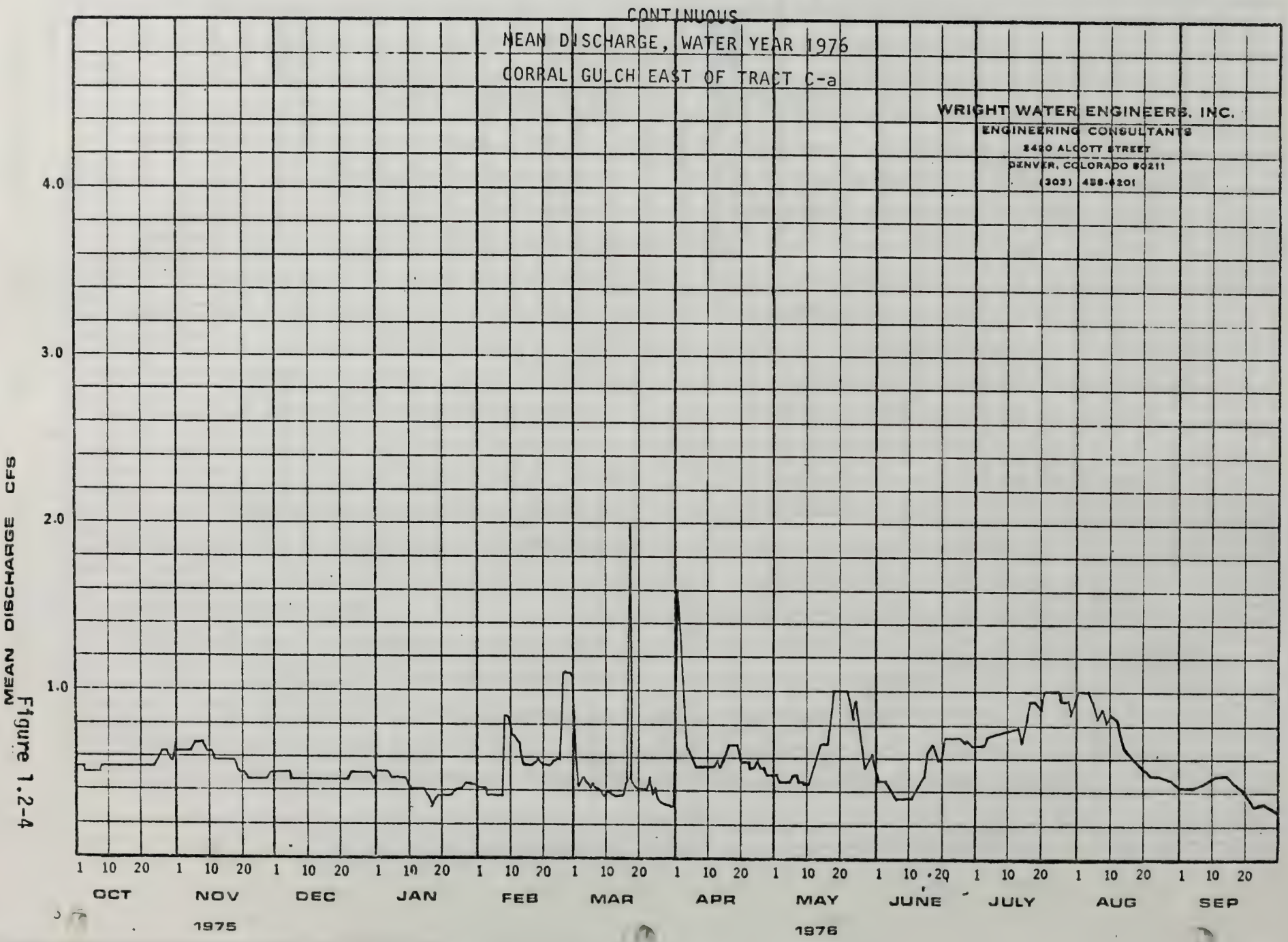

CONTINUOUS
MEAN DISCHARGE, WATER YEAR 1976
CORRAL GULCH EAST OF TRACT C-a
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
MEAN DISCHARGE CFS
4.0
3.0
2.0
1.0
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEP
1975
1976

Figure 1.2-4

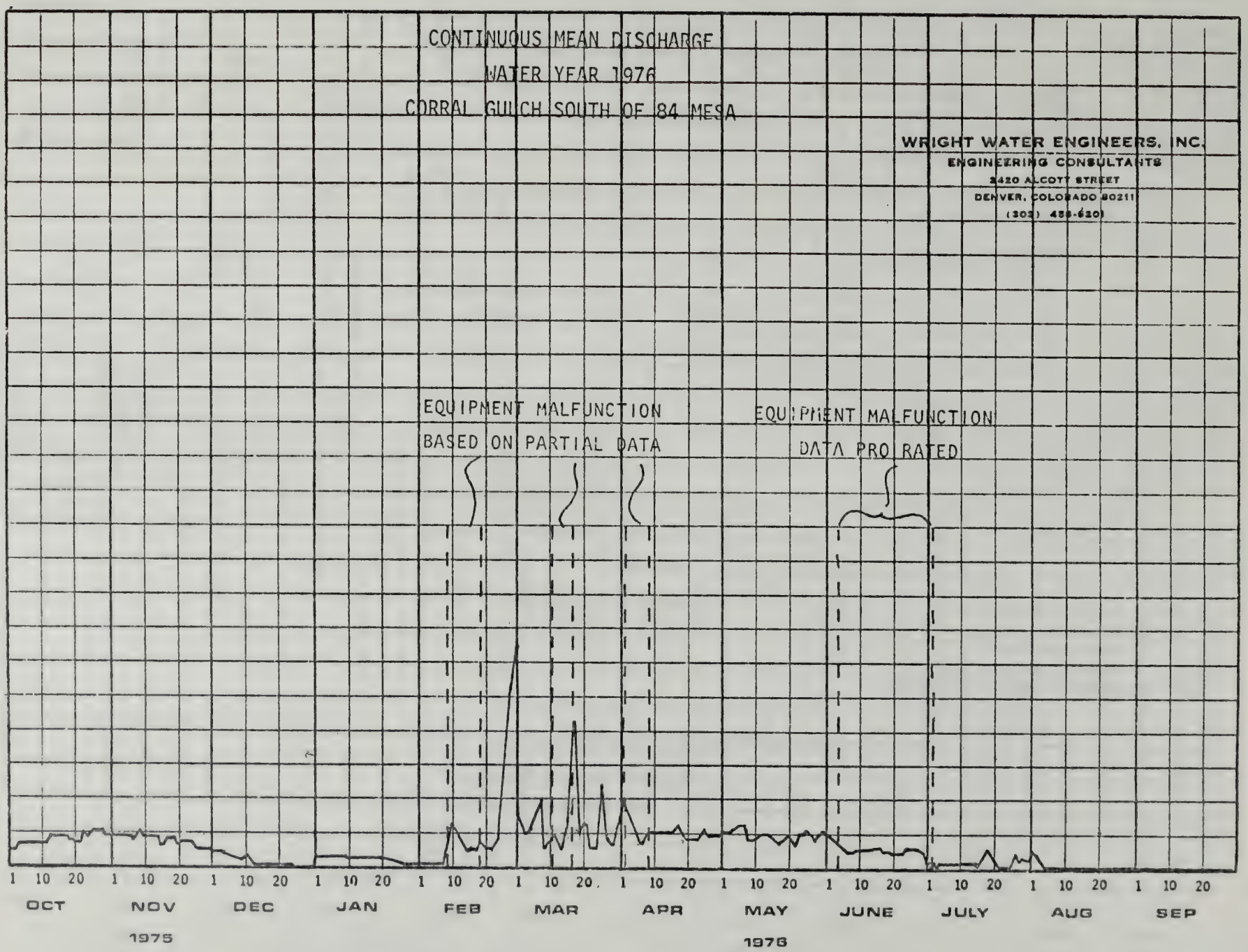

CONTINUOUS MEAN DISCHARGE
WATER YEAR 1976
CORRAL GULCH SOUTH OF 84 MESA
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
EQUIPMENT MALFUNCTION
BASED ON PARTIAL DATA
EQUIPMENT MALFUNCTION
DATA PRO RATED
MEAN DISCHARGE CFS
4
3
2
1
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEP
1975
1976

Figure 1.2-5

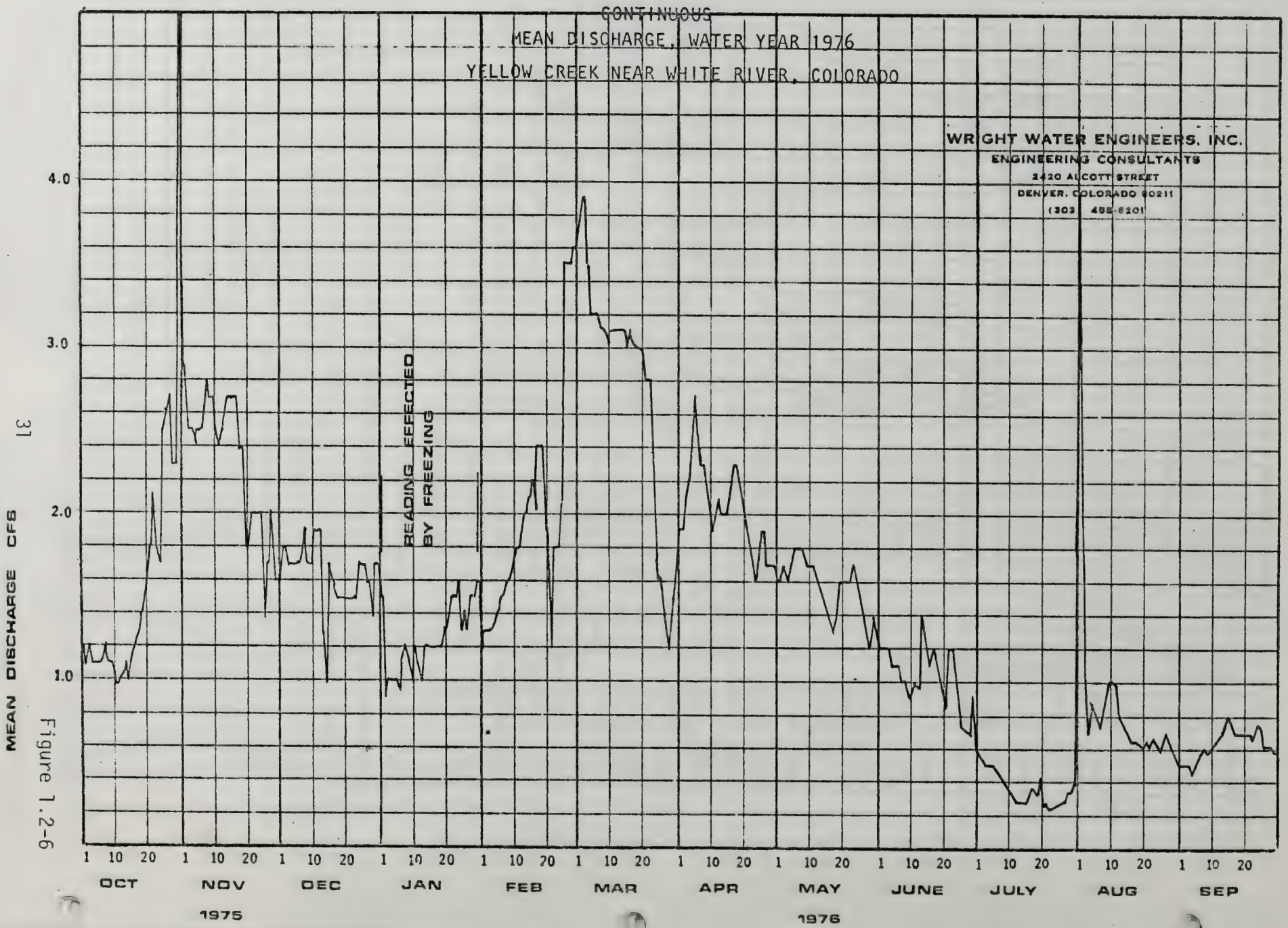

CONTINUOUS
MEAN DISCHARGE, WATER YEAR 1976
YELLOW CREEK NEAR WHITE RIVER, COLORADO
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 455-6201
READING EFFECTED BY FREEZING
MEAN DISCHARGE CFS
4.0
3.0
2.0
1.0
1 10 20
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
1975
1976

Figure 1.2-6

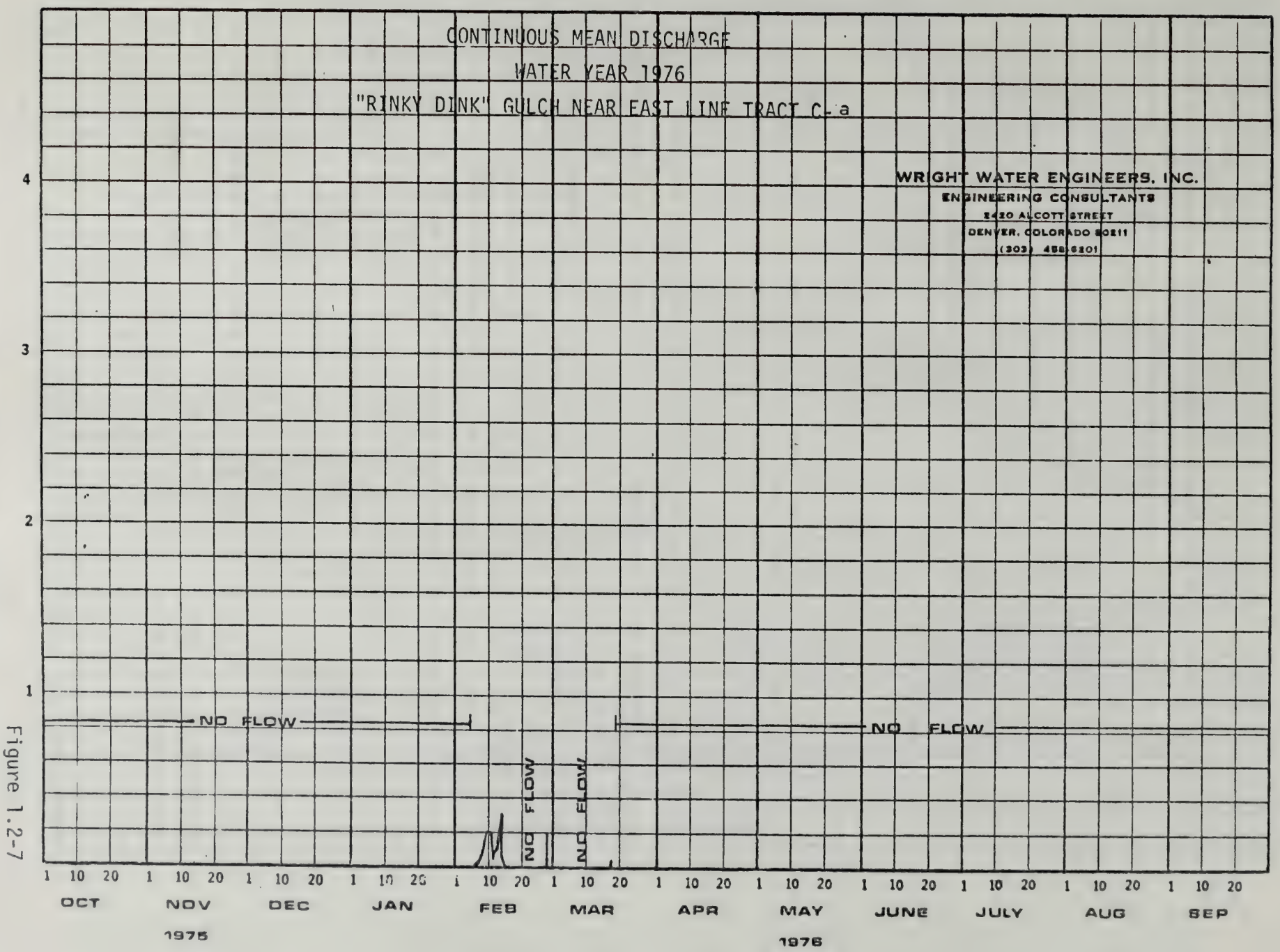

CONTINUOUS MEAN DISCHARGE
WATER YEAR 1976
"RINKY DINK" GULCH NEAR EAST LINE TRACT C-a
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
MEAN DISCHARGE CFS
4
3
2
1
NO FLOW
NO FLOW
NO FLOW
NO FLOW
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT
NOV
1975
DEC
JAN
FEB
MAR
APR
MAY
1976
JUNE
JULY
AUG
SEP

Figure 1.2-7

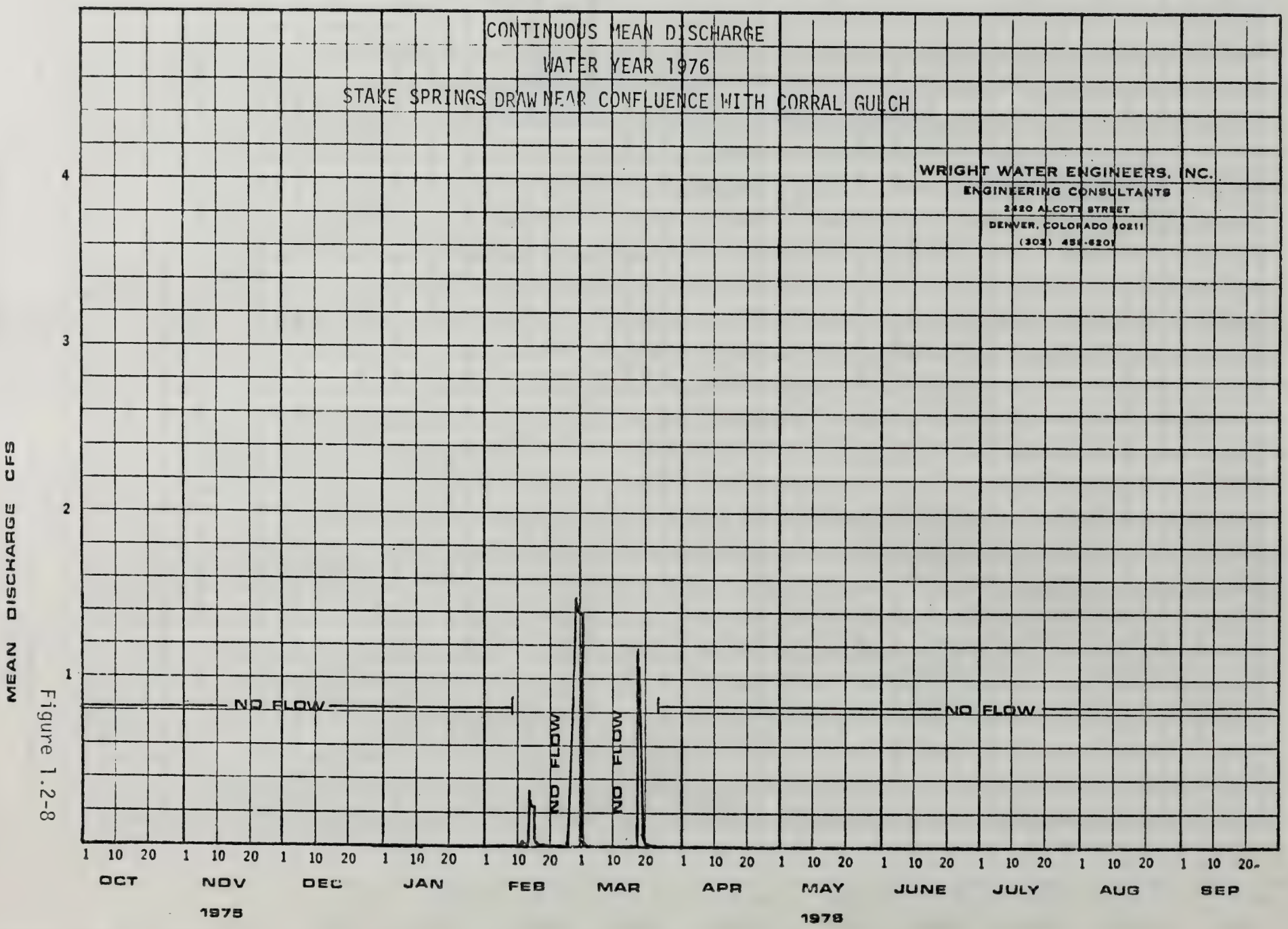

CONTINUOUS MEAN DISCHARGE
WATER YEAR 1976
STAKE SPRINGS DRAW NEAR CONFLUENCE WITH CORRAL GULCH
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
MEAN DISCHARGE CFS
4
3
2
1
NO FLOW
NO FLOW
NO FLOW
NO FLOW
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
1975
1976

Figure 1.2-8

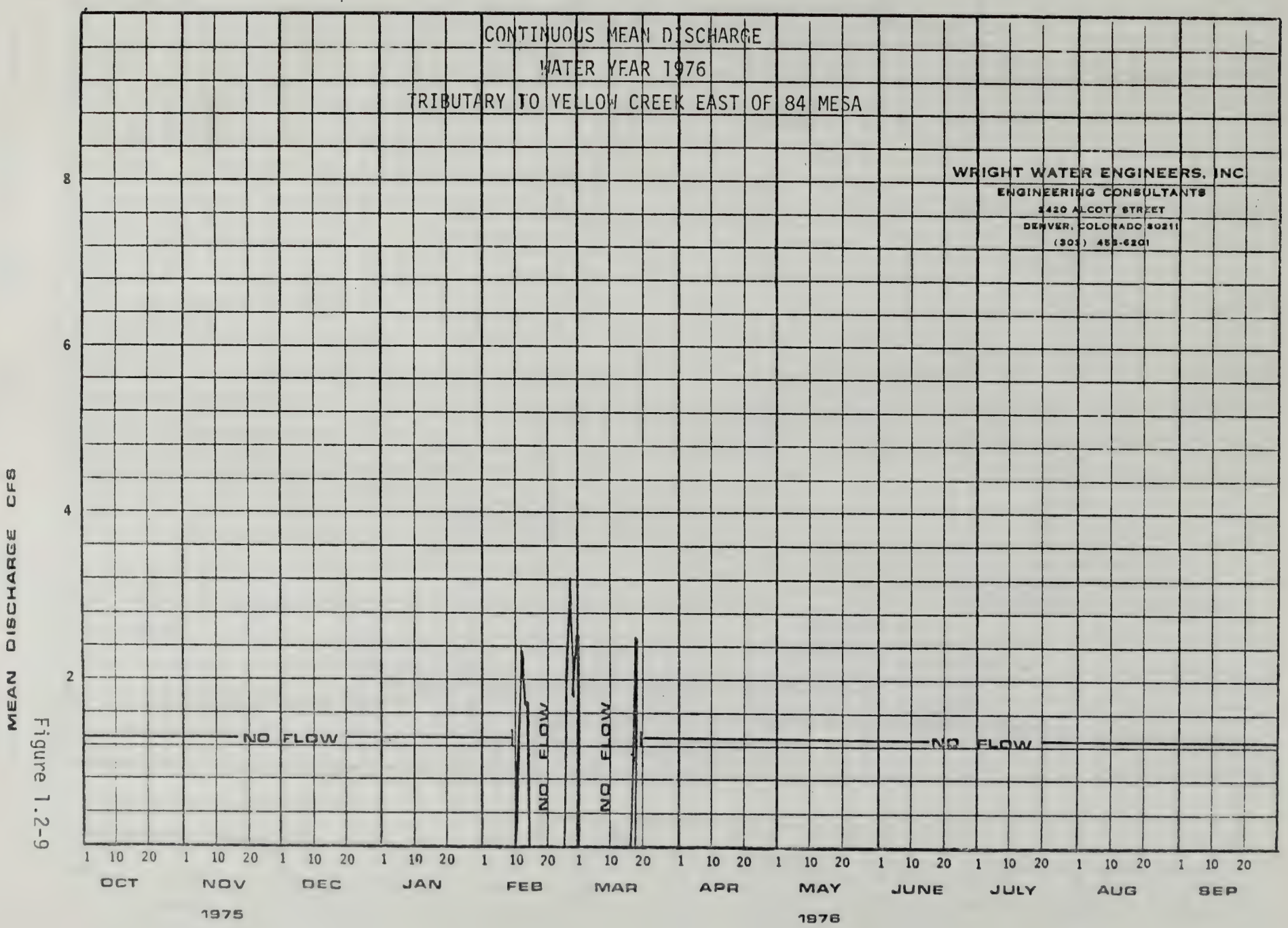

CONTINUOUS MEAN DISCHARGE
WATER YEAR 1976
TRIBUTARY TO YELLOW CREEK EAST OF 84 MESA
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 455-6201
MEAN DISCHARGE CFS
8
6
4
2
NO FLOW
NO FLOW
NO FLOW
NO FLOW
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEP
1975
1976

Figure 1.2-9

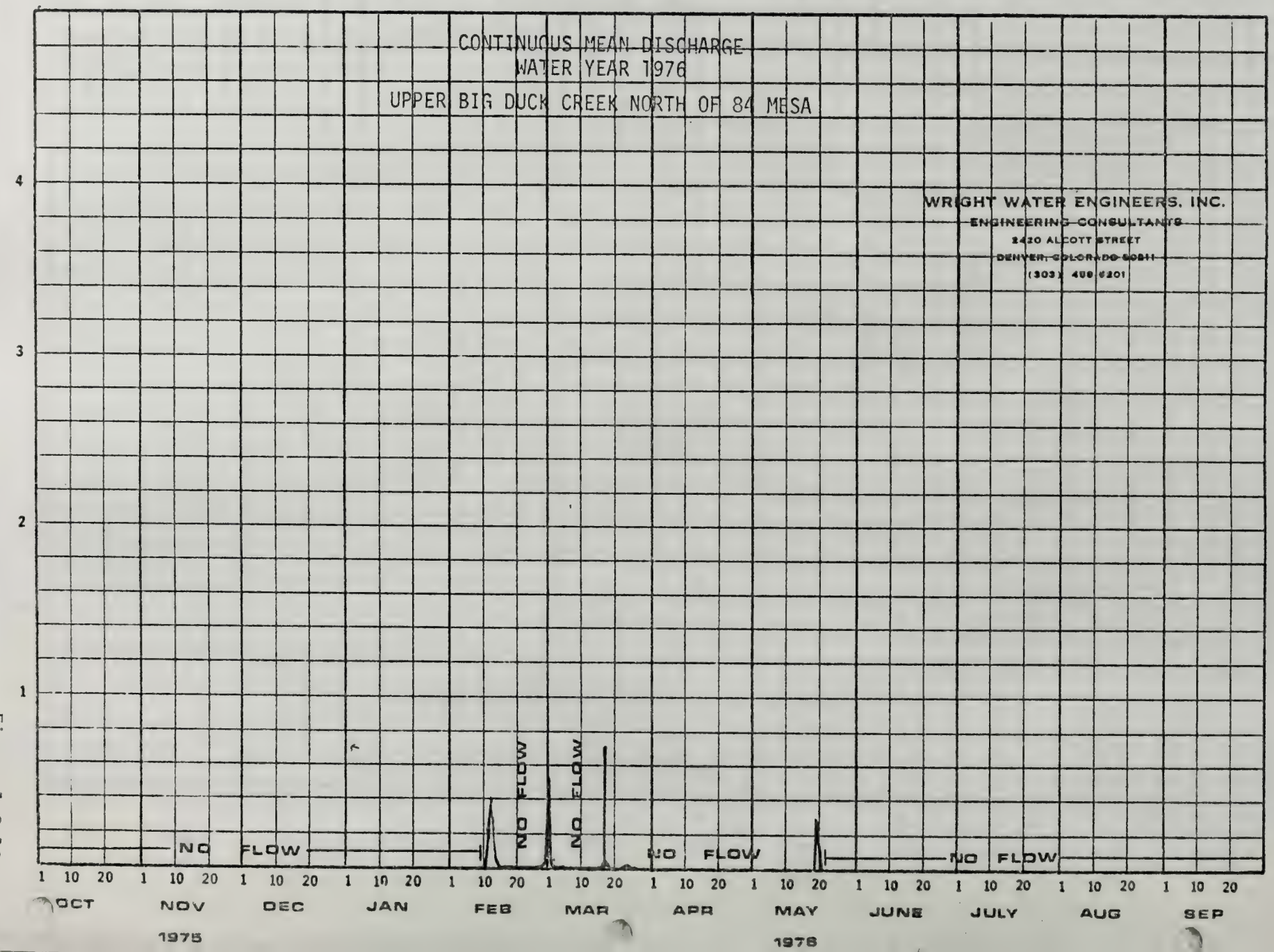

CONTINUOUS MEAN DISCHARGE
WATER YEAR 1976
UPPER BIG DUCK CREEK NORTH OF 84 MESA
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458 6201
MEAN DISCHARGE CFS
4
3
2
1
NO FLOW
NO FLOW
NO FLOW
NO FLOW
NO FLOW
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEP
1975
1976

Figure 1.2-10

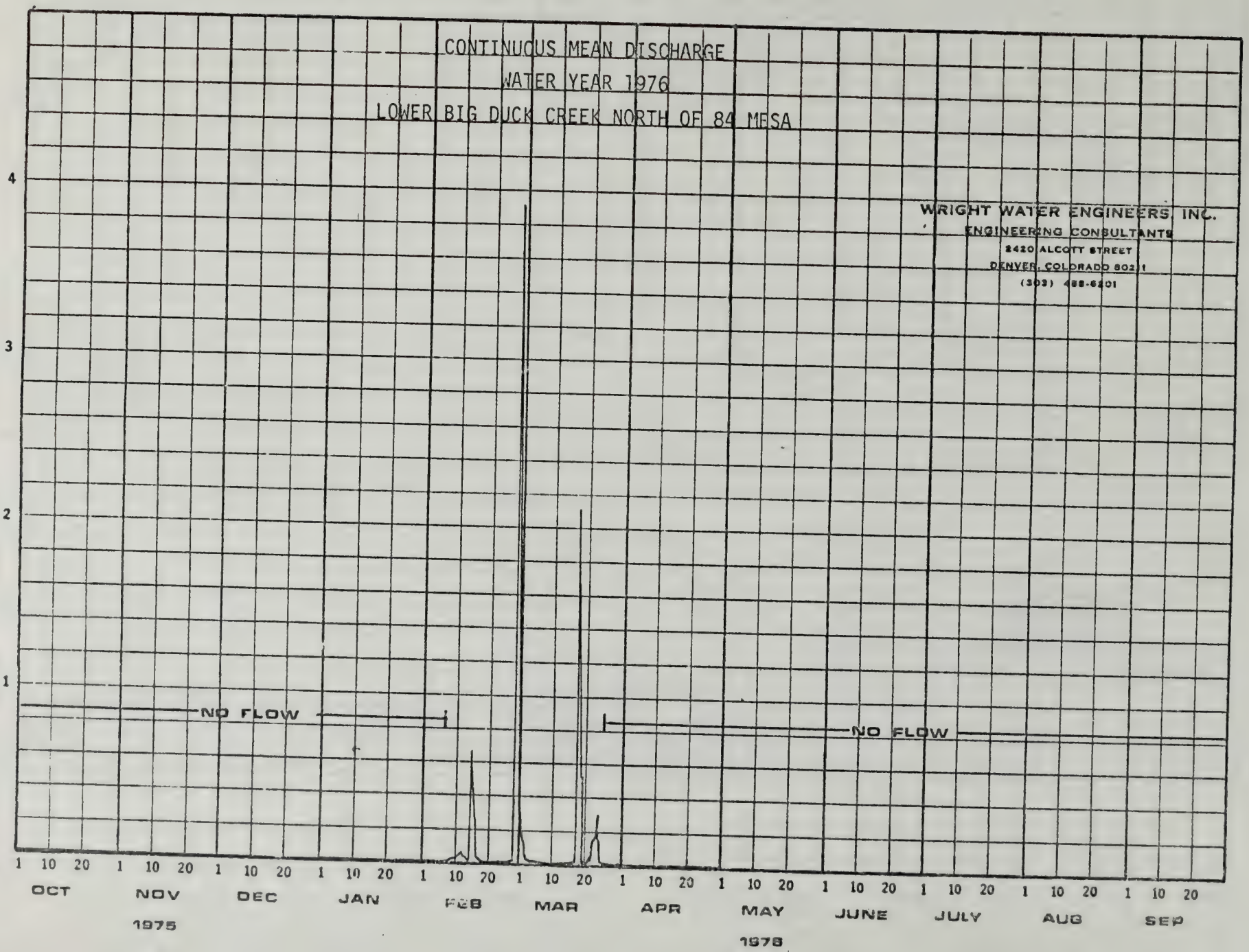
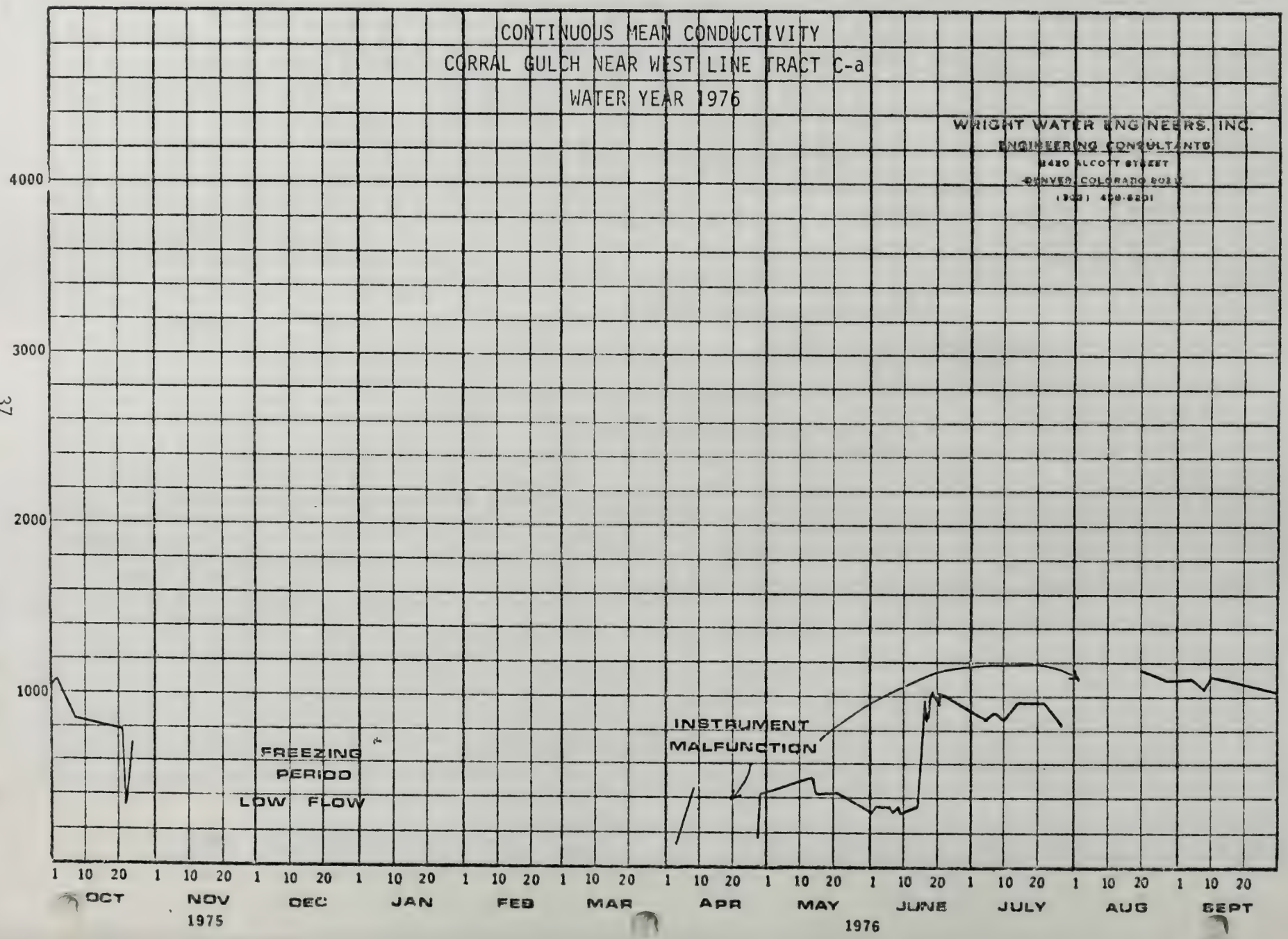

CONTINUOUS MEAN DISCHARGE
WATER YEAR 1976
LOWER BIG DUCK CREEK NORTH OF 84 MESA
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
MEAN DISCHARGE CFS
4
3
2
1
NO FLOW
NO FLOW
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
1975
1976

Figure 1.2-11



MEAN CONDUCTIVITY µMHOS/CM

Figure 1.2-12

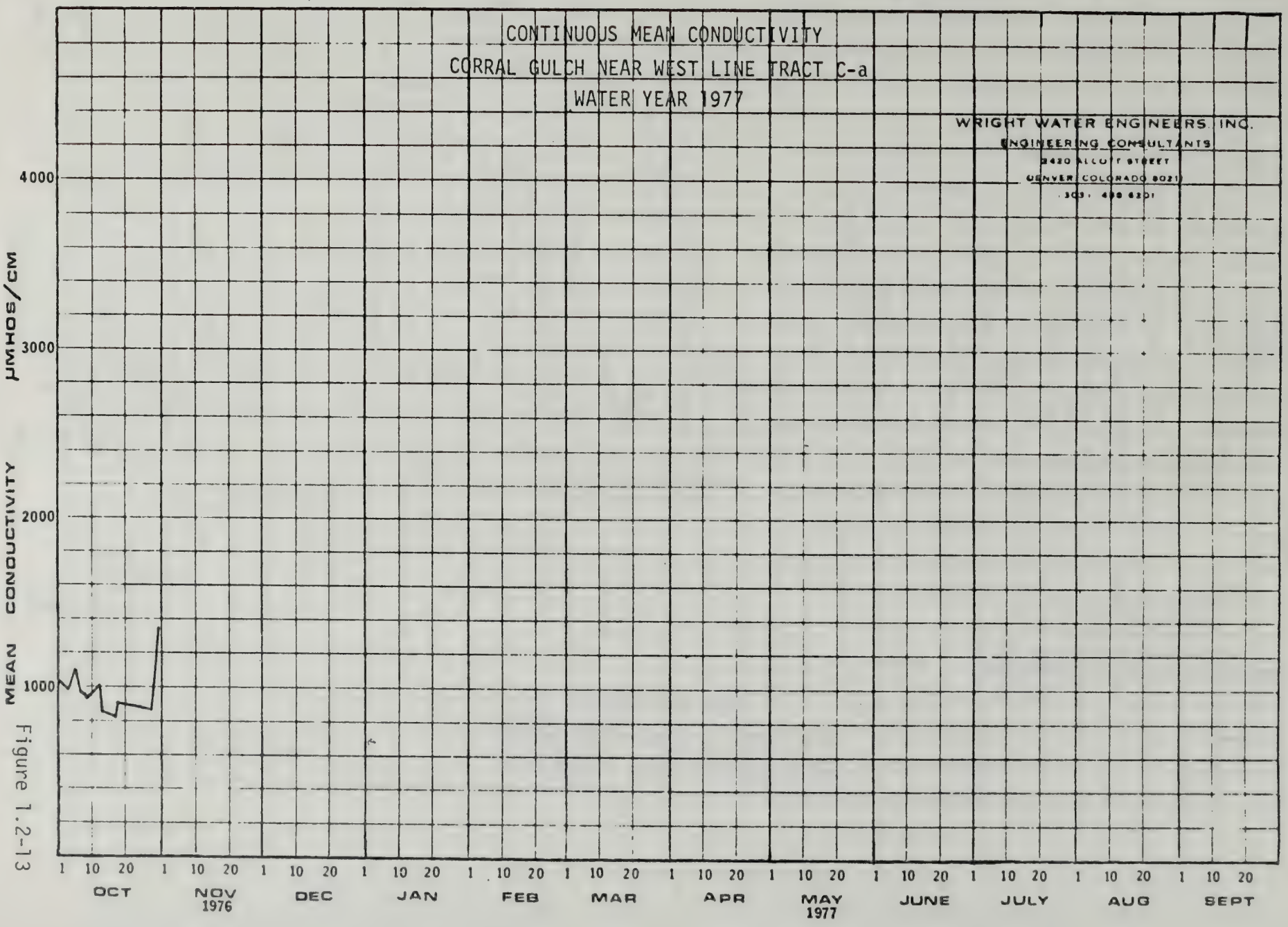

CONTINUOUS MEAN CONDUCTIVITY
CORRAL GULCH NEAR WEST LINE TRACT C-a
WATER YEAR 1977
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458 6201
MEAN CONDUCTIVITY µMHOS/CM
4000
3000
2000
1000
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT
NOV 1976
DEC
JAN
FEB
MAR
APR
MAY 1977
JUNE
JULY
AUG
SEPT

Figure 1.2-13

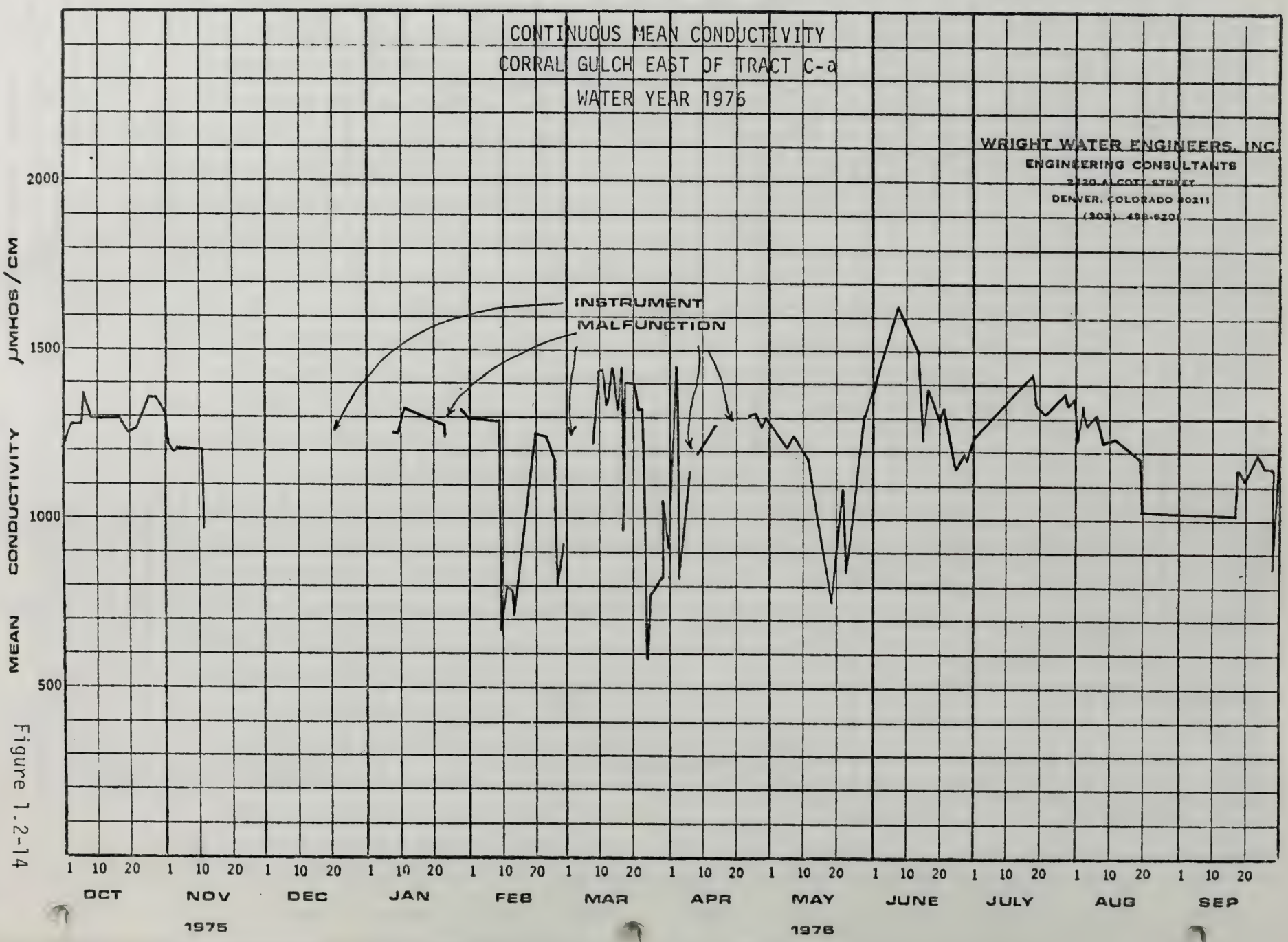

CONTINUOUS MEAN CONDUCTIVITY
CORRAL GULCH EAST OF TRACT C-a
WATER YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
INSTRUMENT
MALFUNCTION
MEAN CONDUCTIVITY µMHOS/CM
2000
1500
1000
500
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEP
1975
1976

Figure 1.2-14

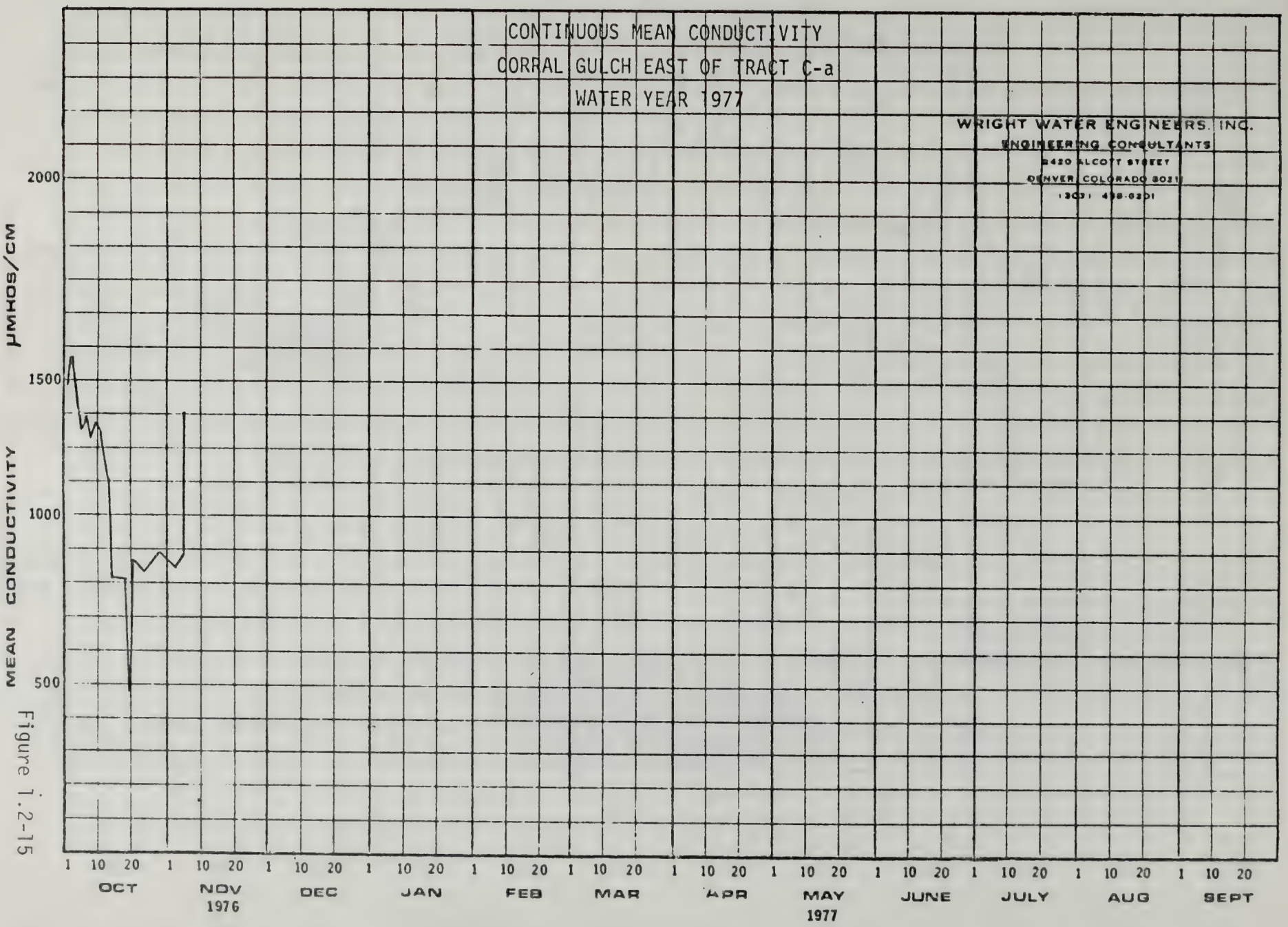

CONTINUOUS MEAN CONDUCTIVITY
CORRAL GULCH EAST OF TRACT C-a
WATER YEAR 1977
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-0201
MEAN CONDUCTIVITY µMHOS/CM
2000
1500
1000
500
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT
NOV
1976
DEC
JAN
FEB
MAR
APR
MAY
1977
JUNE
JULY
AUG
SEPT

Figure 1.2-15

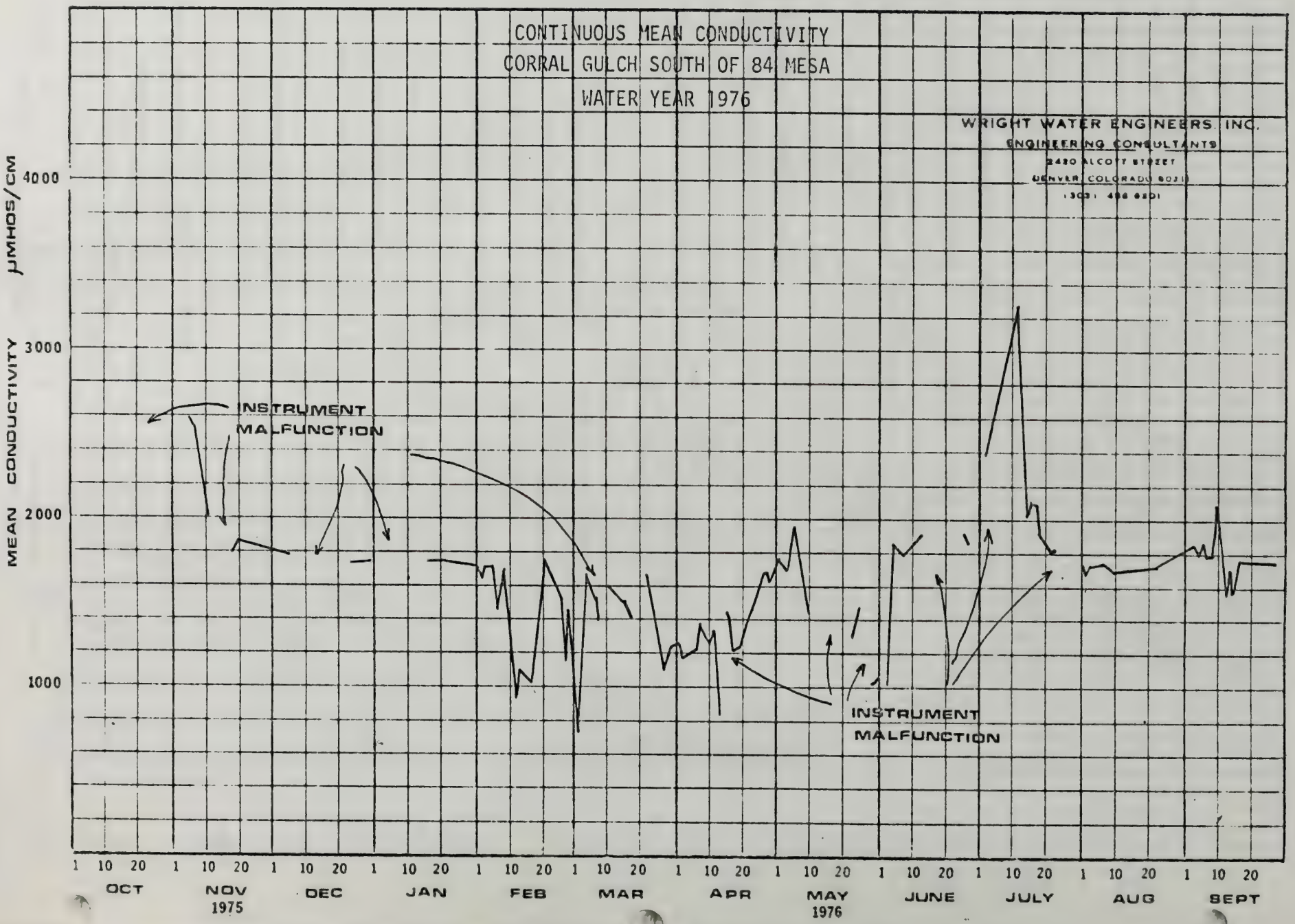

CONTINUOUS MEAN CONDUCTIVITY
CORRAL GULCH SOUTH OF 84 MESA
WATER YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2490 ALCOTT STREET
DENVER, COLORADO 80211
(303) 456 6201
MEAN CONDUCTIVITY µMHOS/CM
4000
3000
2000
1000
INSTRUMENT MALFUNCTION
INSTRUMENT MALFUNCTION
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT
NOV 1975
DEC
JAN
FEB
MAR
APR
MAY 1976
JUNE
JULY
AUG
SEPT

Figure 1.2-16

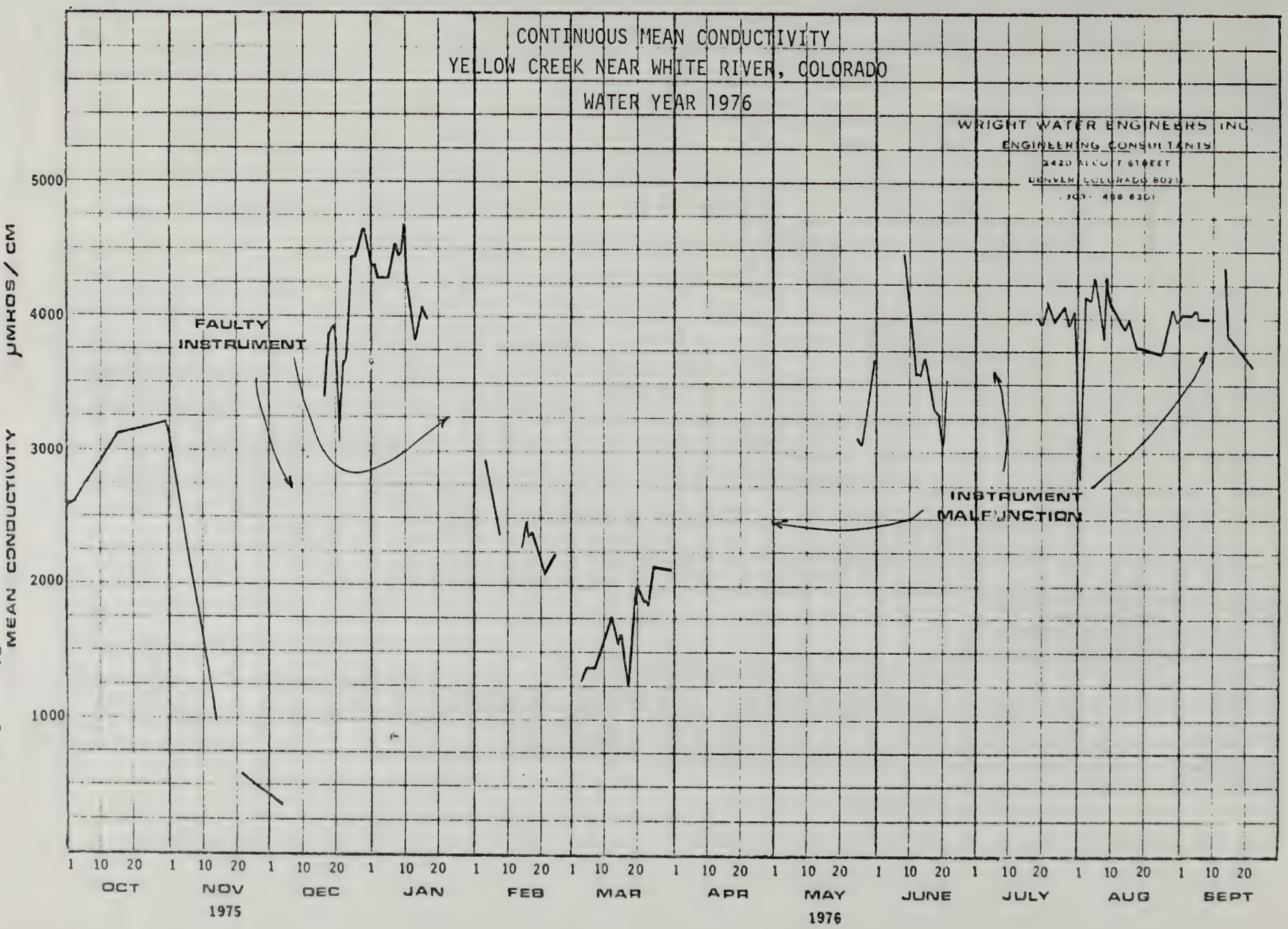

CONTINUOUS MEAN CONDUCTIVITY
YELLOW CREEK NEAR WHITE RIVER, COLORADO
WATER YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
MEAN CONDUCTIVITY µMHOS/CM
5000
4000
3000
2000
1000
FAULTY INSTRUMENT
INSTRUMENT MALFUNCTION
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEPT
1975
1976

Figure 1.2-17

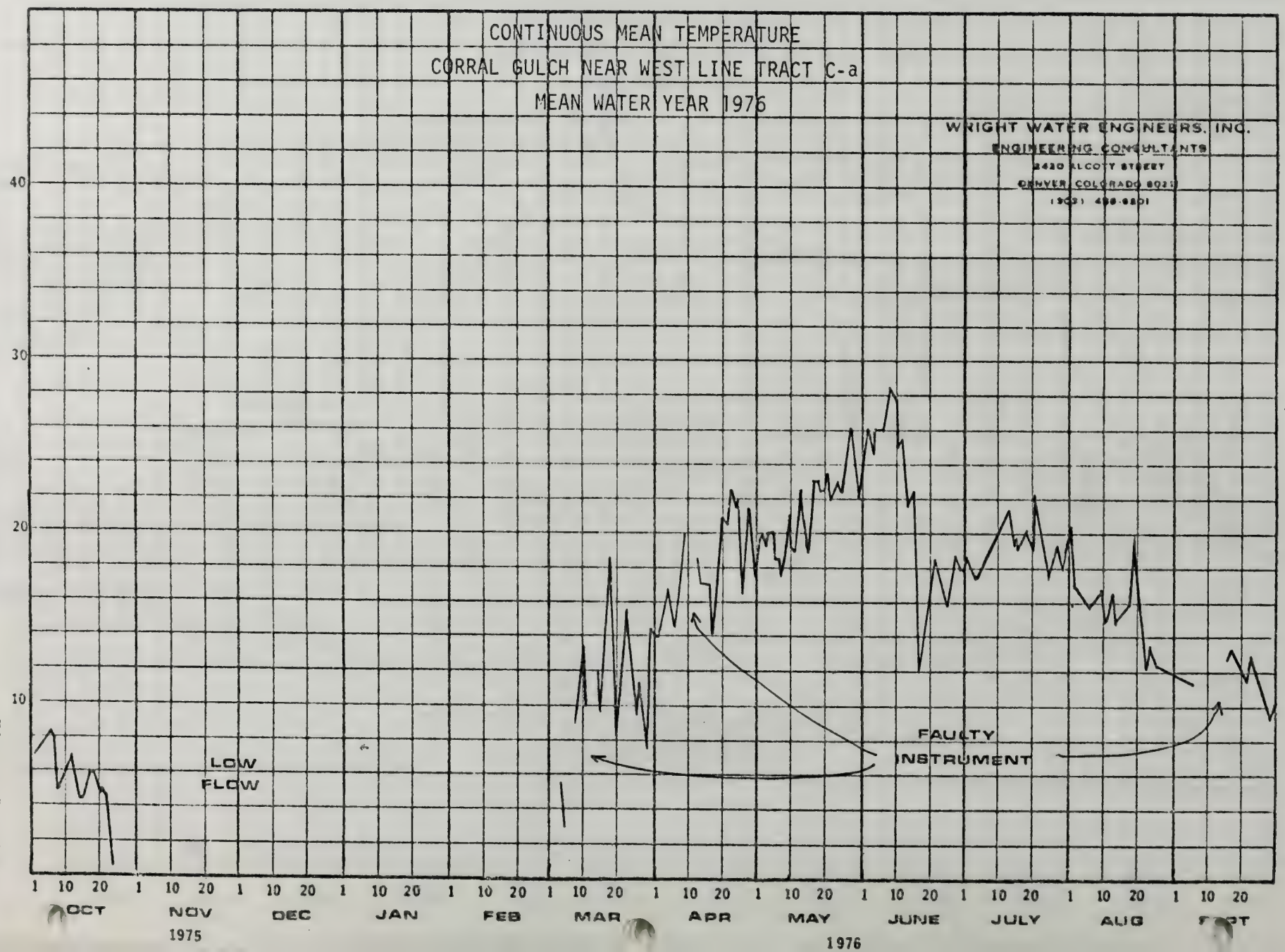

CONTINUOUS MEAN TEMPERATURE
CORRAL GULCH NEAR WEST LINE TRACT C-a
MEAN WATER YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2490 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-8801
MEAN TEMPERATURE °C
40
30
20
10
LOW FLOW
FAULTY INSTRUMENT
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEPT
1975
1976

Figure 1.2-18

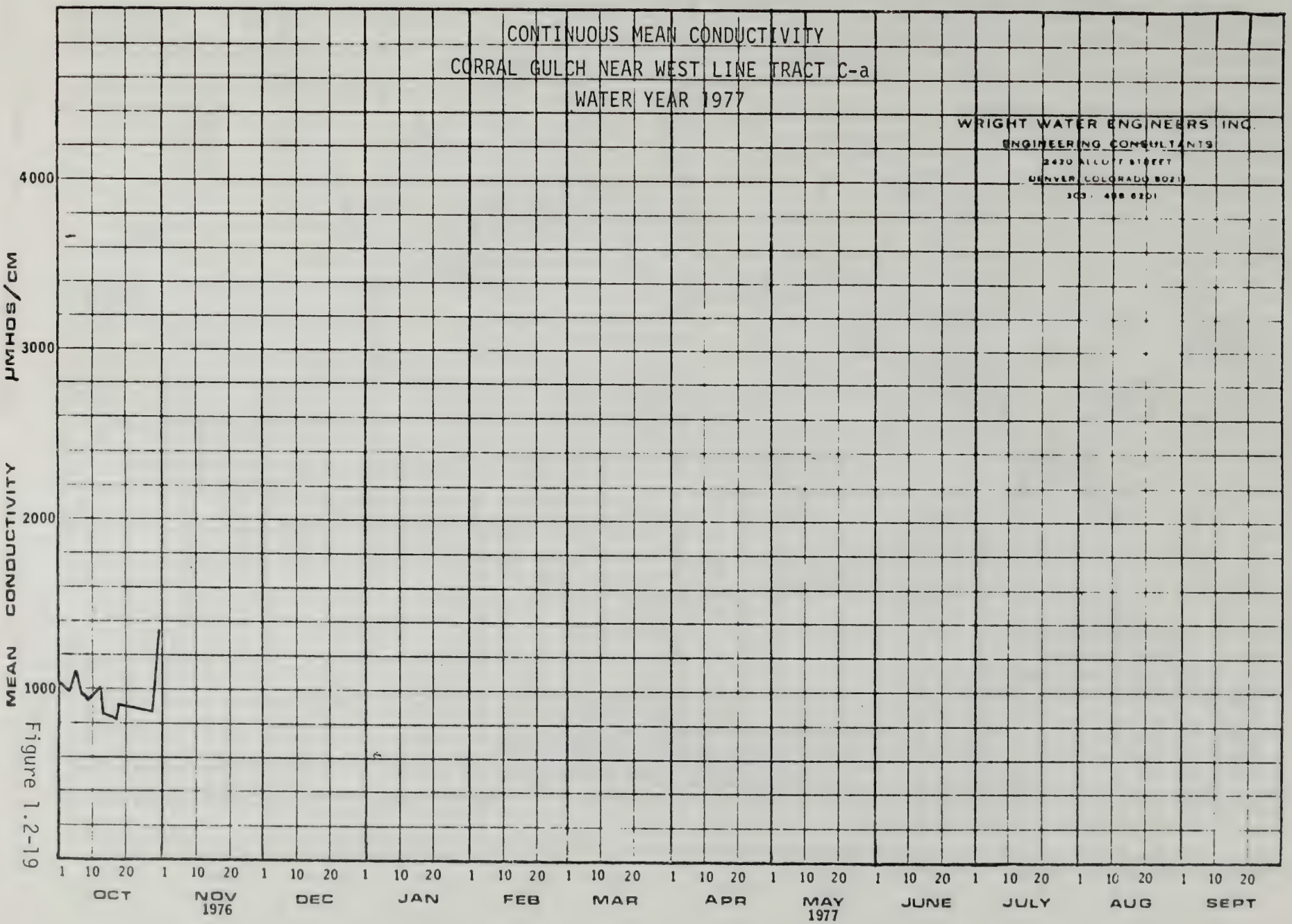

CONTINUOUS MEAN CONDUCTIVITY
CORRAL GULCH NEAR WEST LINE TRACT C-a
WATER YEAR 1977
WRIGHT WATER ENGINEERS INC.
ENGINEERING CONSULTANTS
2490 ALLOTT STREET
DENVER, COLORADO 80211
303 - 458 6201
MEAN CONDUCTIVITY µMHOS/CM
4000
3000
2000
1000
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT
NOV 1976
DEC
JAN
FEB
MAR
APR
MAY 1977
JUNE
JULY
AUG
SEPT

Figure 1.2-19

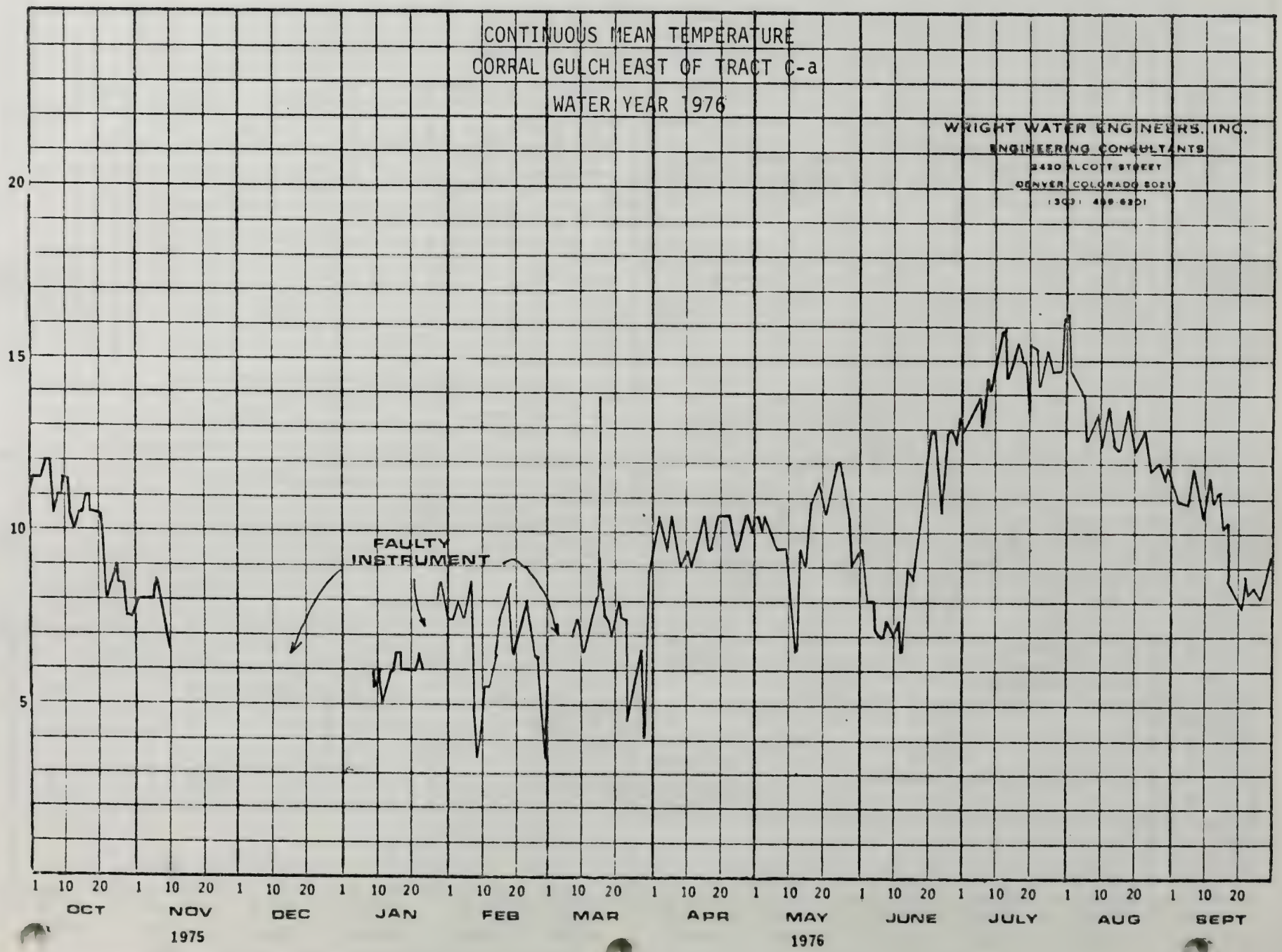

CONTINUOUS MEAN TEMPERATURE
CORRAL GULCH EAST OF TRACT C-a
WATER YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2490 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6301
FAULTY INSTRUMENT
MEAN TEMPERATURE °C
20
15
10
5
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEPT
1975
1976

Figure 1.2-20

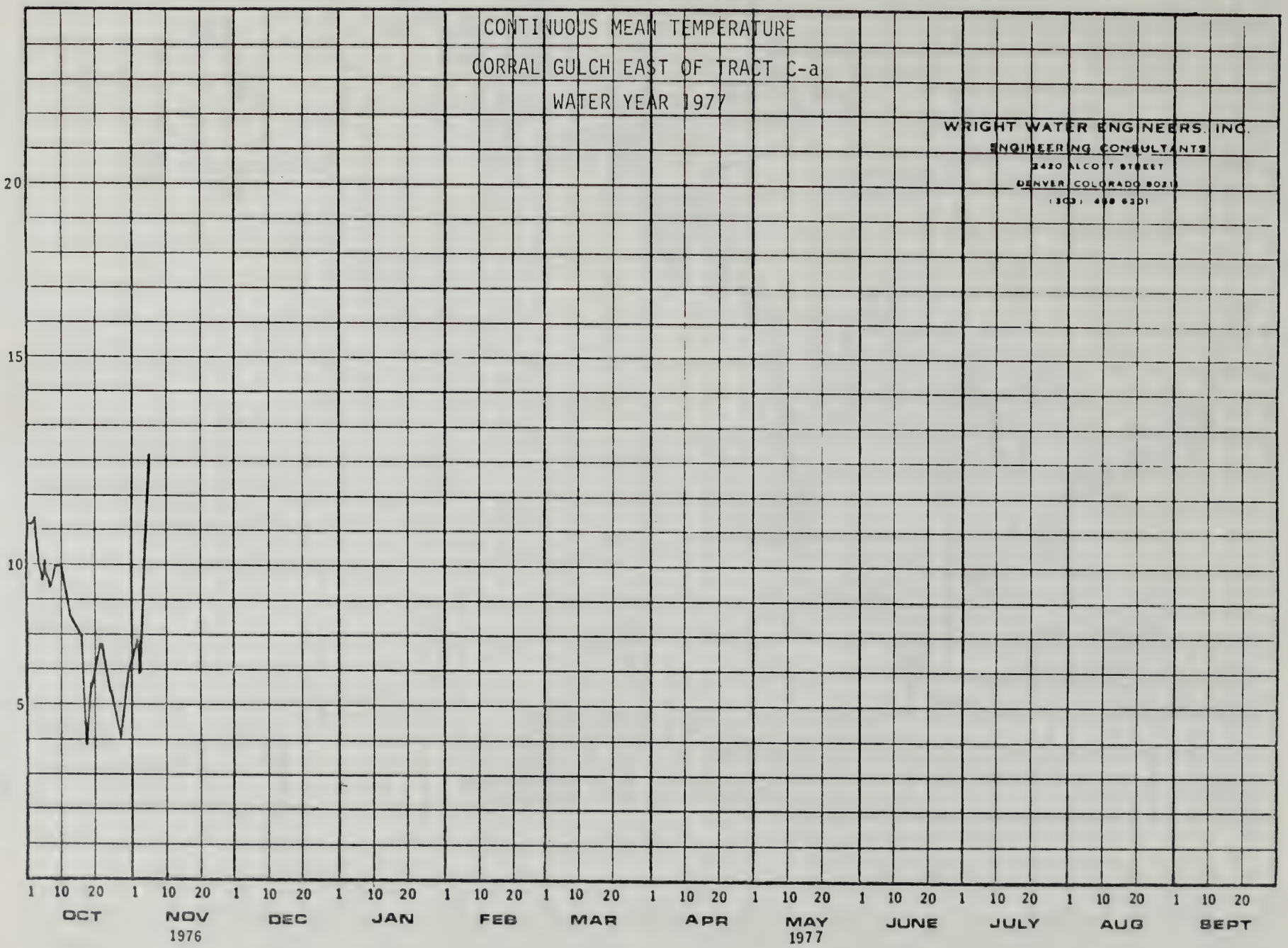

CONTINUOUS MEAN TEMPERATURE
CORRAL GULCH EAST OF TRACT C-a
WATER YEAR 1977
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458 6301
MEAN TEMPERATURE °C
20
15
10
5
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT
NOV
1976
DEC
JAN
FEB
MAR
APR
MAY
1977
JUNE
JULY
AUG
SEPT

Figure 1.2-21

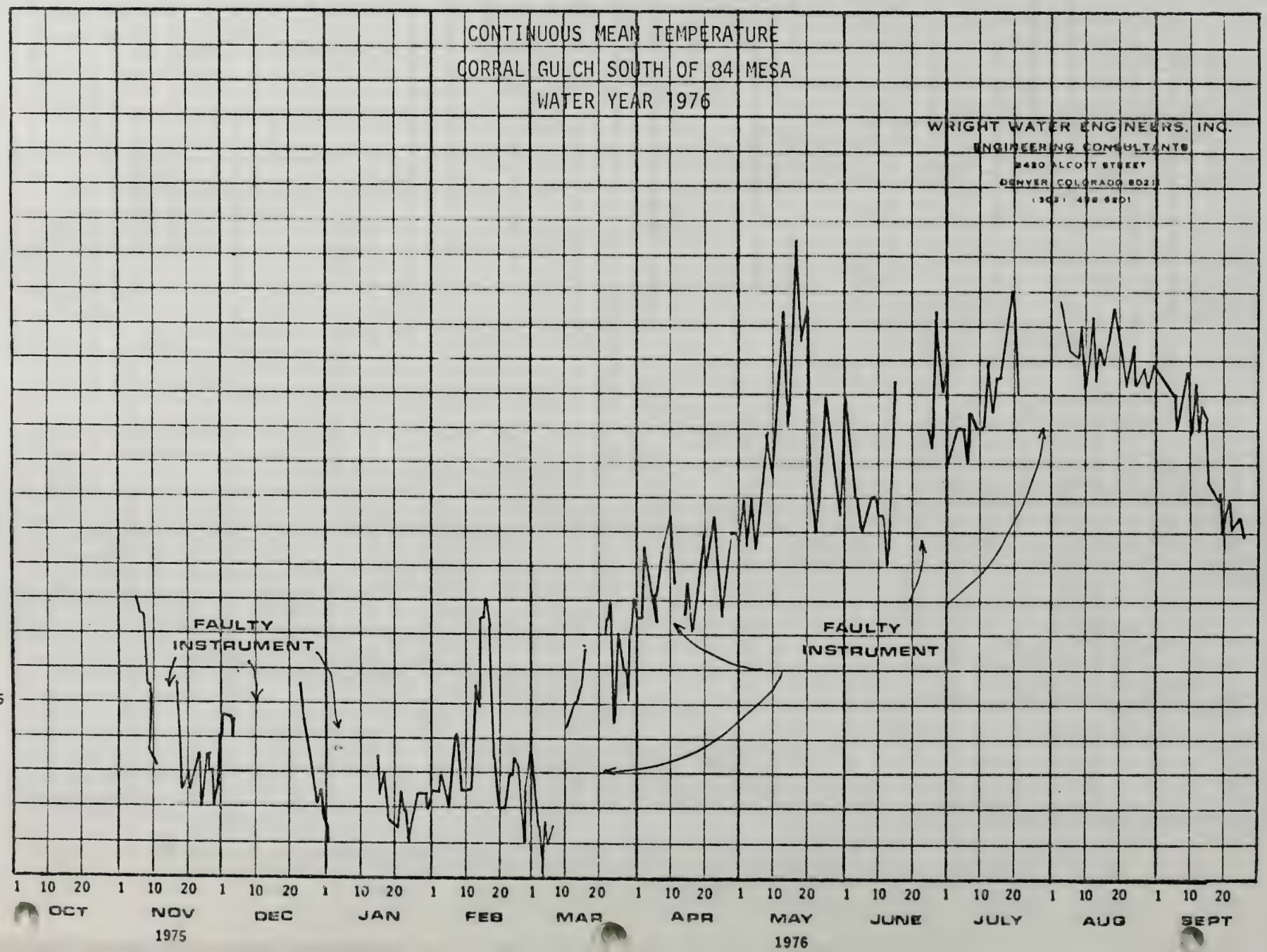

CONTINUOUS MEAN TEMPERATURE
CORRAL GULCH SOUTH OF 84 MESA
WATER YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2490 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458 6201
MEAN TEMPERATURE °C
15
10
5
FAULTY INSTRUMENT
FAULTY INSTRUMENT
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT
NOV
1975
DEC
JAN
FEB
MAR
APR
MAY
1976
JUNE
JULY
AUG
SEPT

Figure 1.2-22

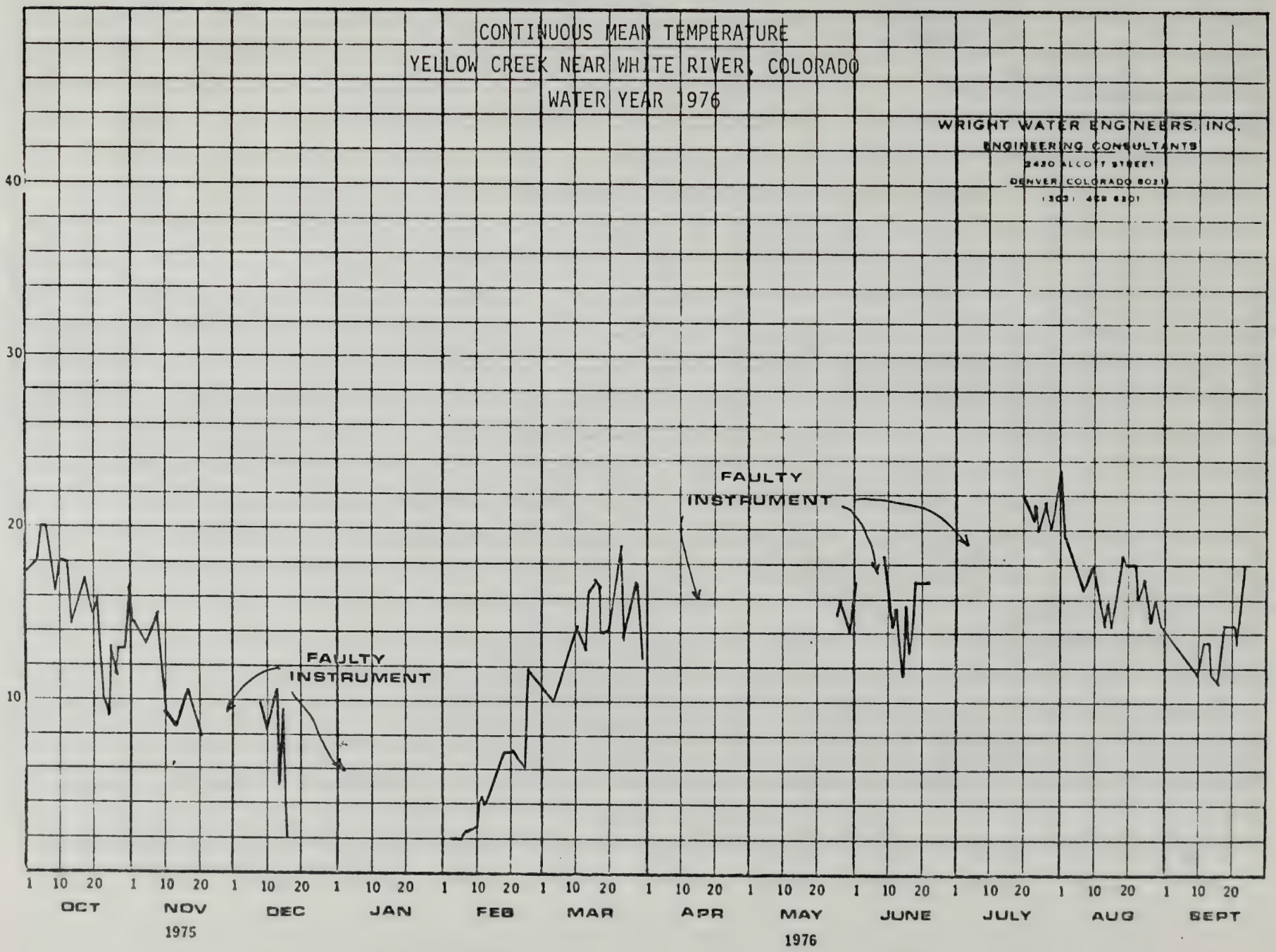

CONTINUOUS MEAN TEMPERATURE
YELLOW CREEK NEAR WHITE RIVER, COLORADO
WATER YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2490 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458 8301
FAULTY INSTRUMENT
FAULTY INSTRUMENT
40
30
20
10
MEAN TEMPERATURE °C
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
OCT
NOV
1975
DEC
JAN
FEB
MAR
APR
MAY
1976
JUNE
JULY
AUG
SEPT

Figure 1.2-23

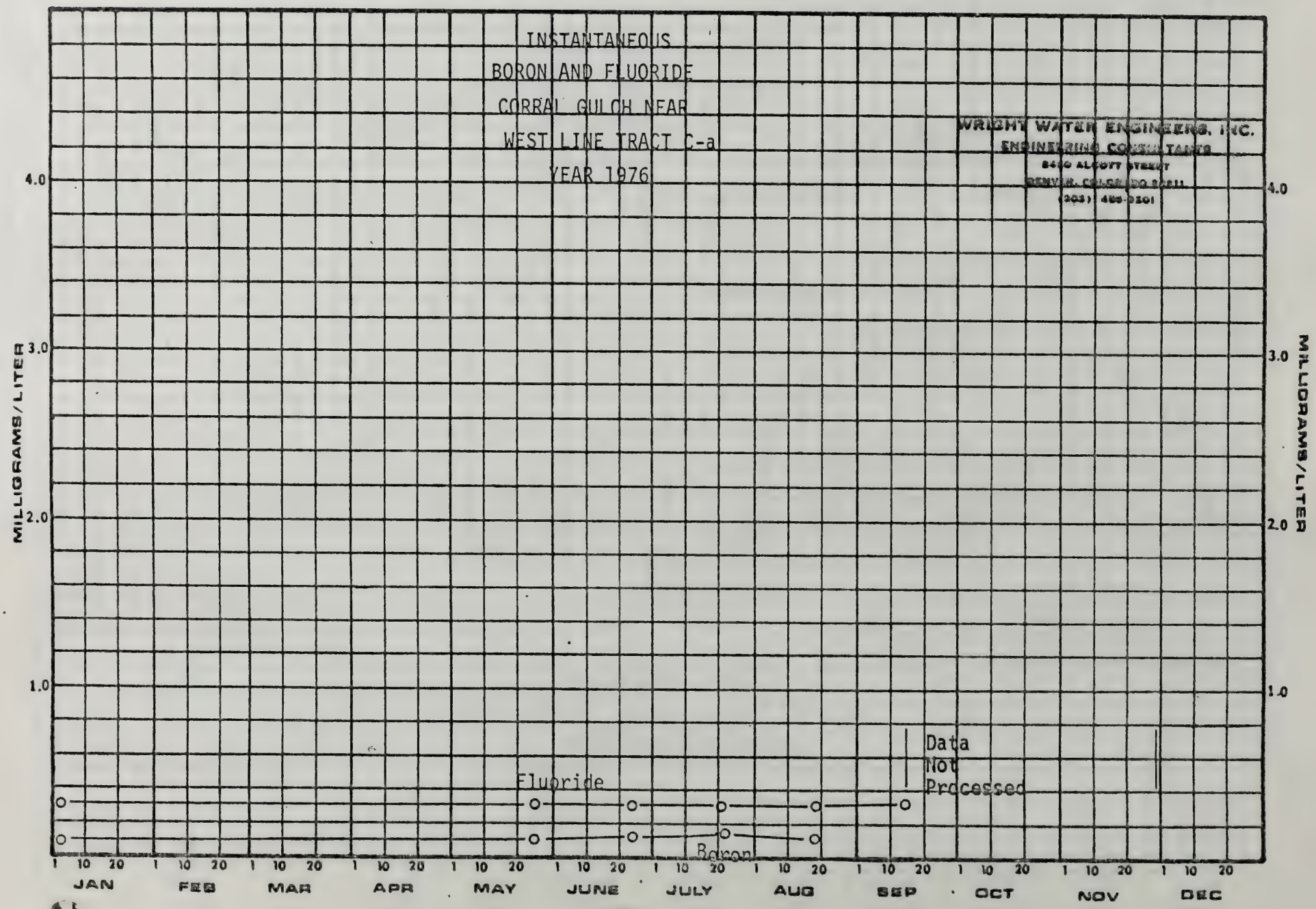
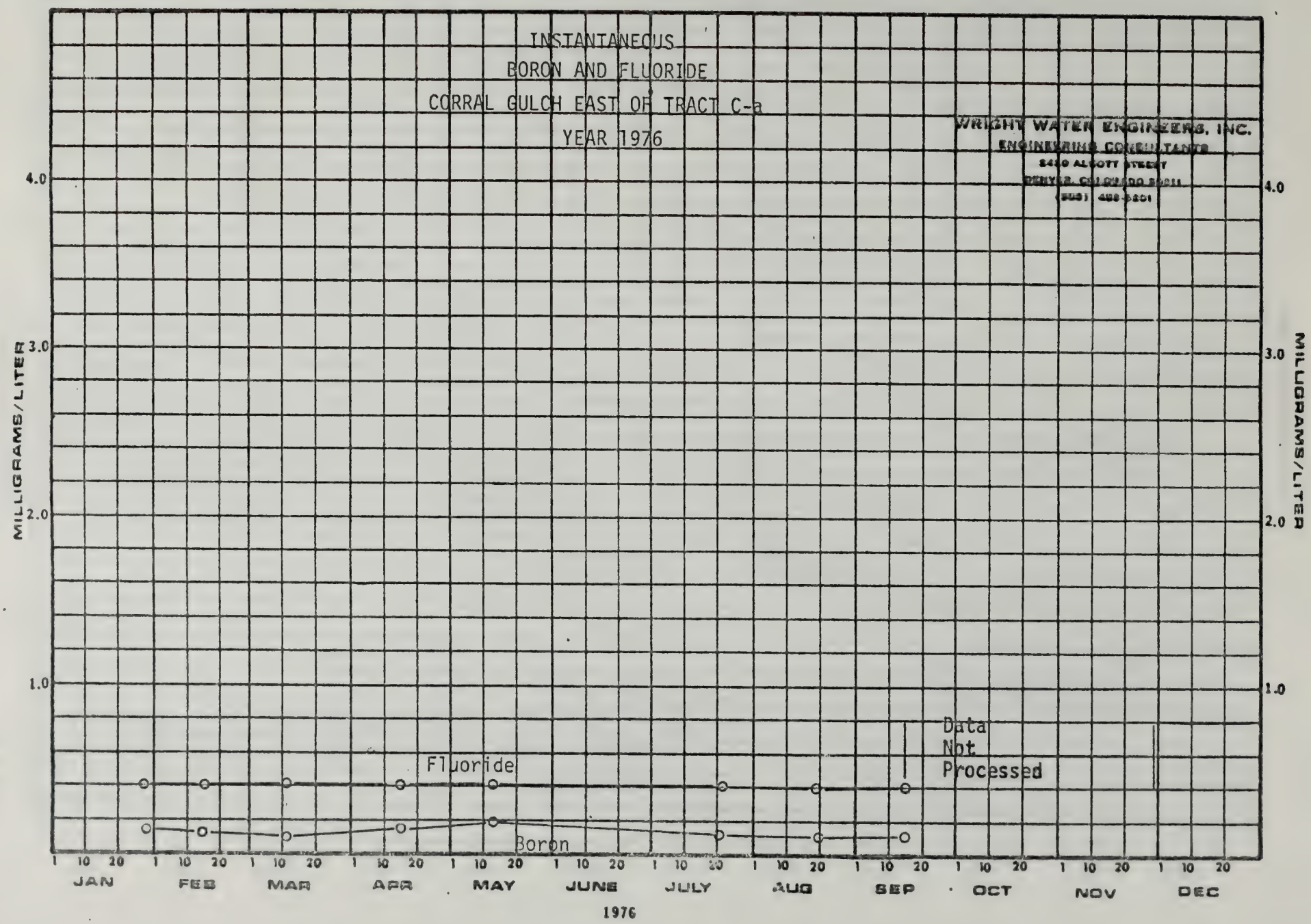

INSTANTANEOUS
BORON AND FLUORIDE
CORRAL GULCH NEAR
WEST LINE TRACT C-a
YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
MILLIGRAMS/LITER
4.0
3.0
2.0
1.0
Data
Not
Processed
Fluoride
Boron
1 10 20
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
1976

Figure 1.2-24


INSTANTANEOUS
BORON AND FLUORIDE
CORRAL GULCH EAST OF TRACT C-a
YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
MILLIGRAMS/LITER
4.0
3.0
2.0
1.0
Fluoride
Boron
Data
Not
Processed
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JAN
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MAY
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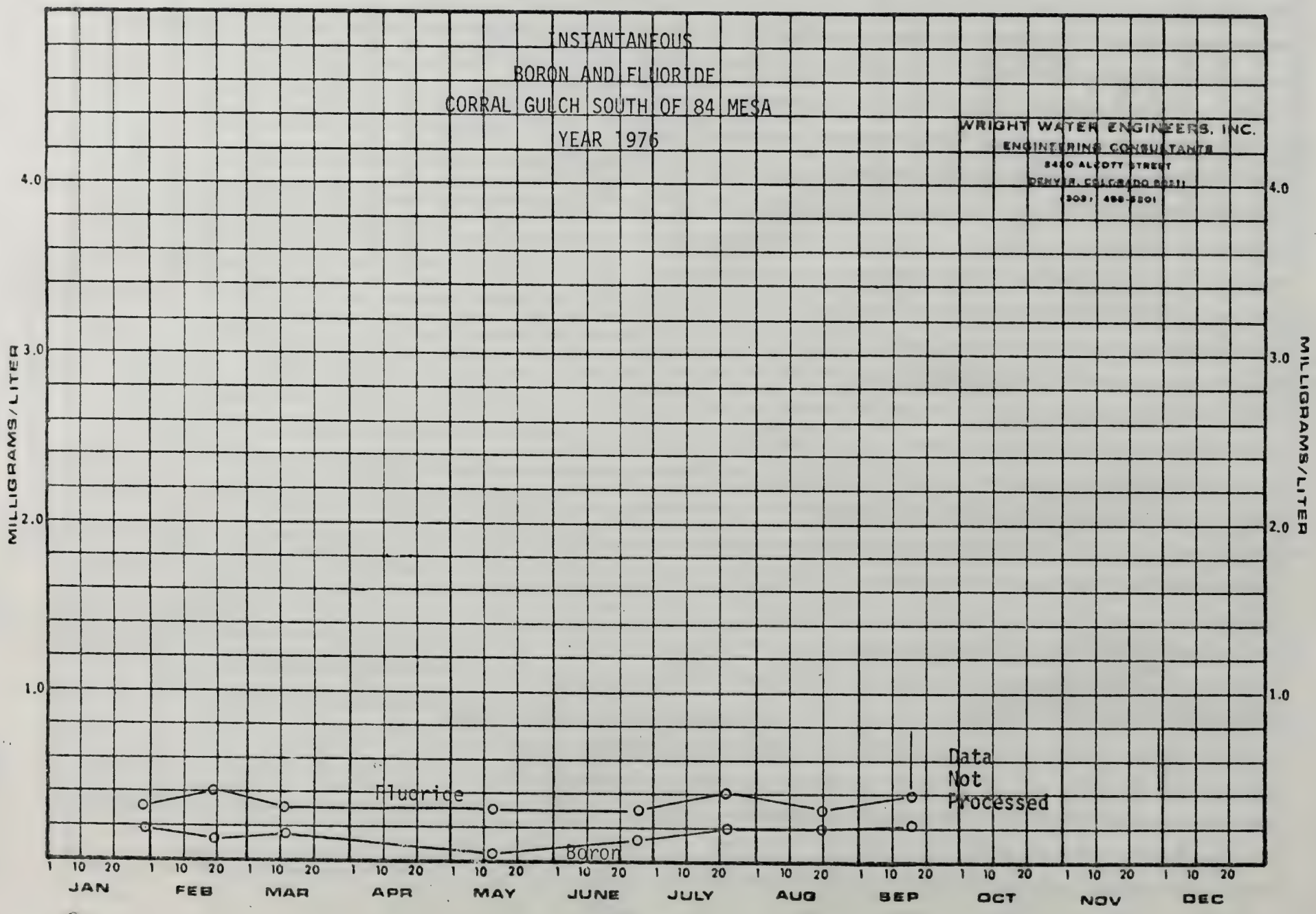
SEP
OCT
NOV
DEC
1976

Figure 1.2-25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BORON AND FLUORIDE
CORRAL GULCH SOUTH OF 84 MESA
YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2490 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-5501
MILLIGRAMS/LITER
4.0
3.0
2.0
1.0
Fluoride
Boron
Data
Not
Processed
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MAR
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JUNE
JULY
AUG
SEP
OCT
NOV
DEC
1976

Figure 1.2-26

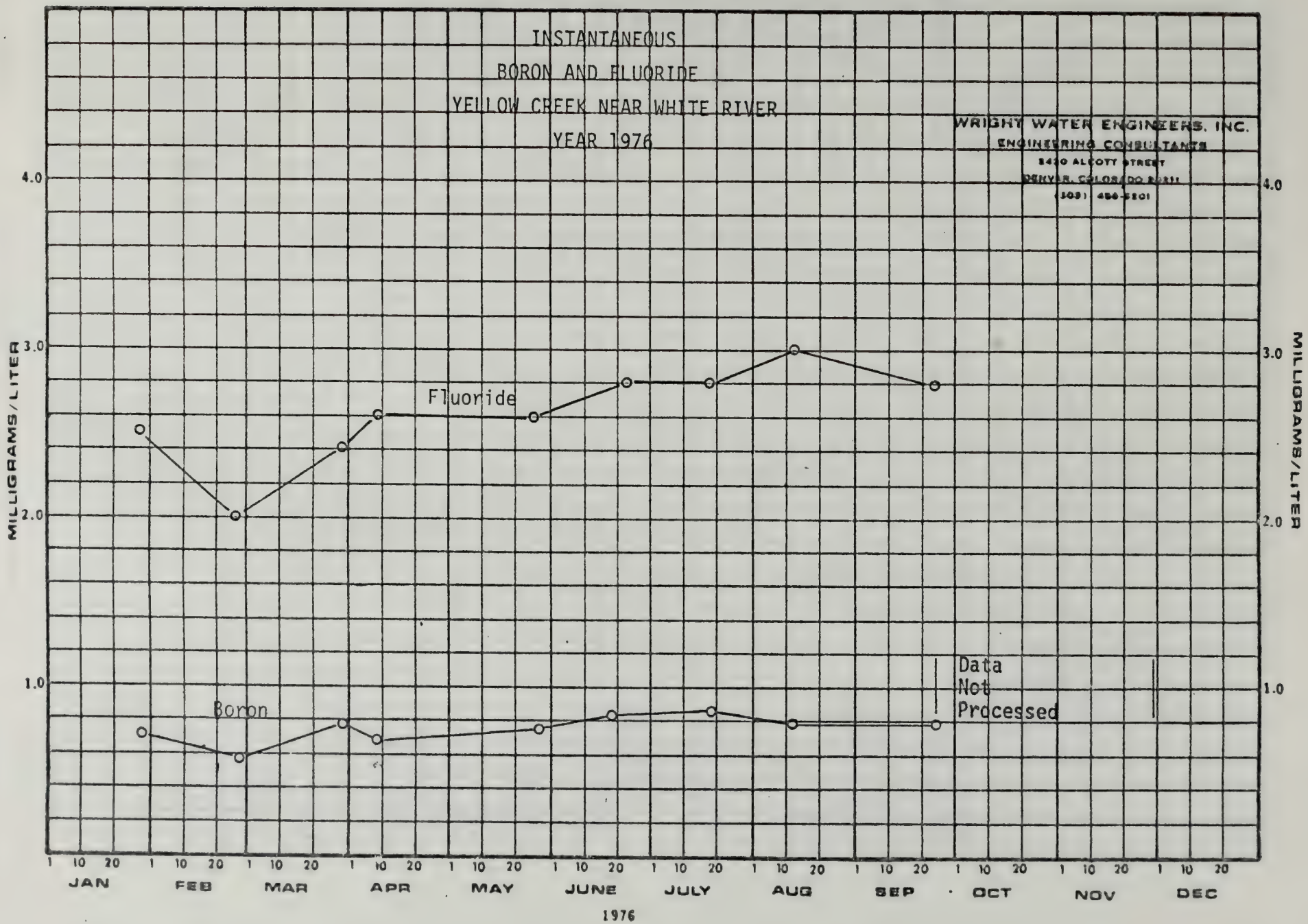
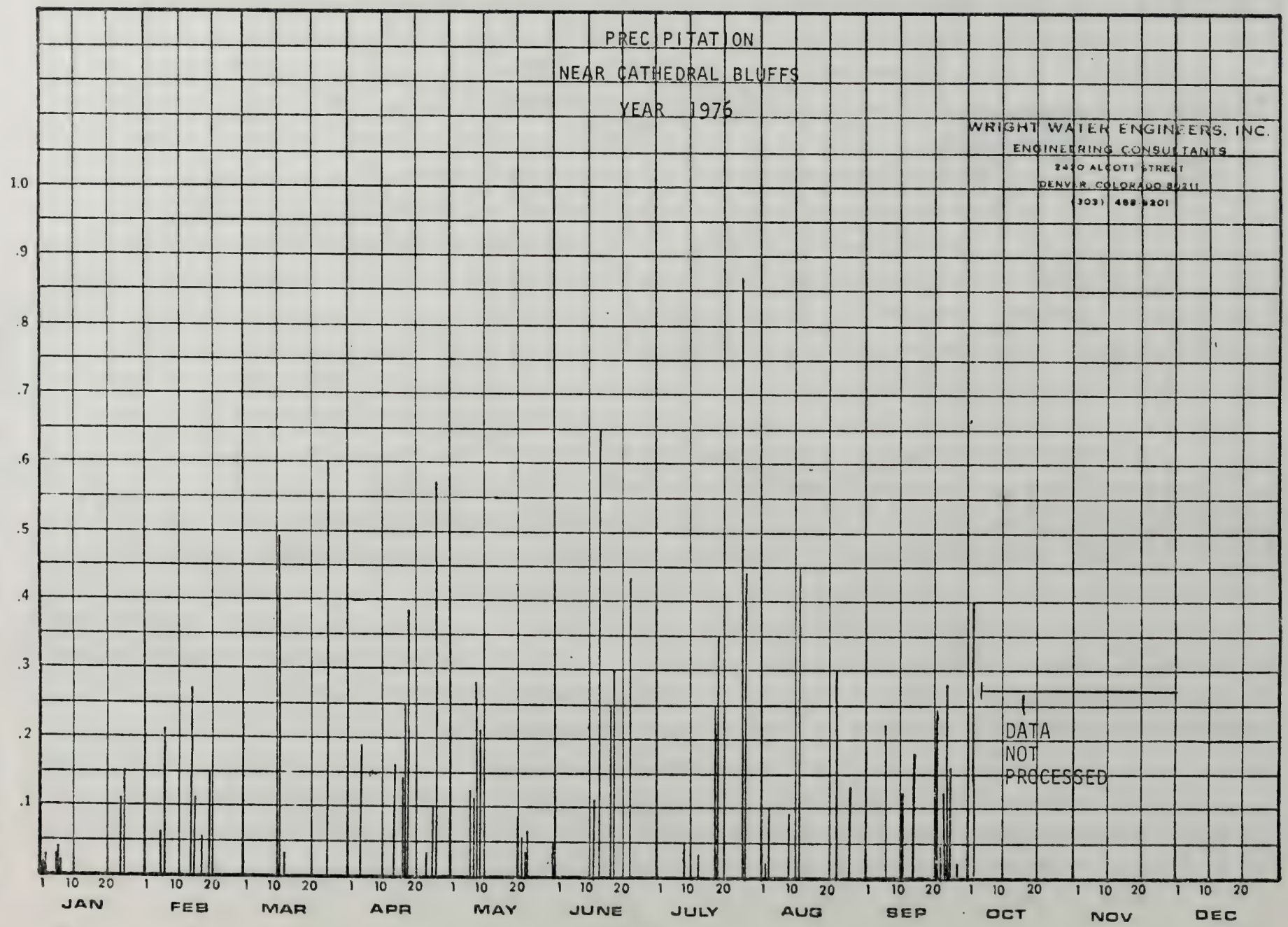

INSTANTANEOUS
BORON AND FLUORIDE
YELLOW CREEK NEAR WHITE RIVER
YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
Fluoride
Boron
Data
Not
Processed
MILLIGRAMS/LITER
4.0
3.0
2.0
1.0
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
1976

Figure 1.2-27


PRECIPITATION
NEAR CATHEDRAL BLUFFS
YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-5201
PRECIPITATION IN INCHES
1.0
.9
.8
.7
.6
.5
.4
.3
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.1
DATA
NOT
PROCESSED
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JAN
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OCT
NOV
DEC
1976

Figure 1.2-28

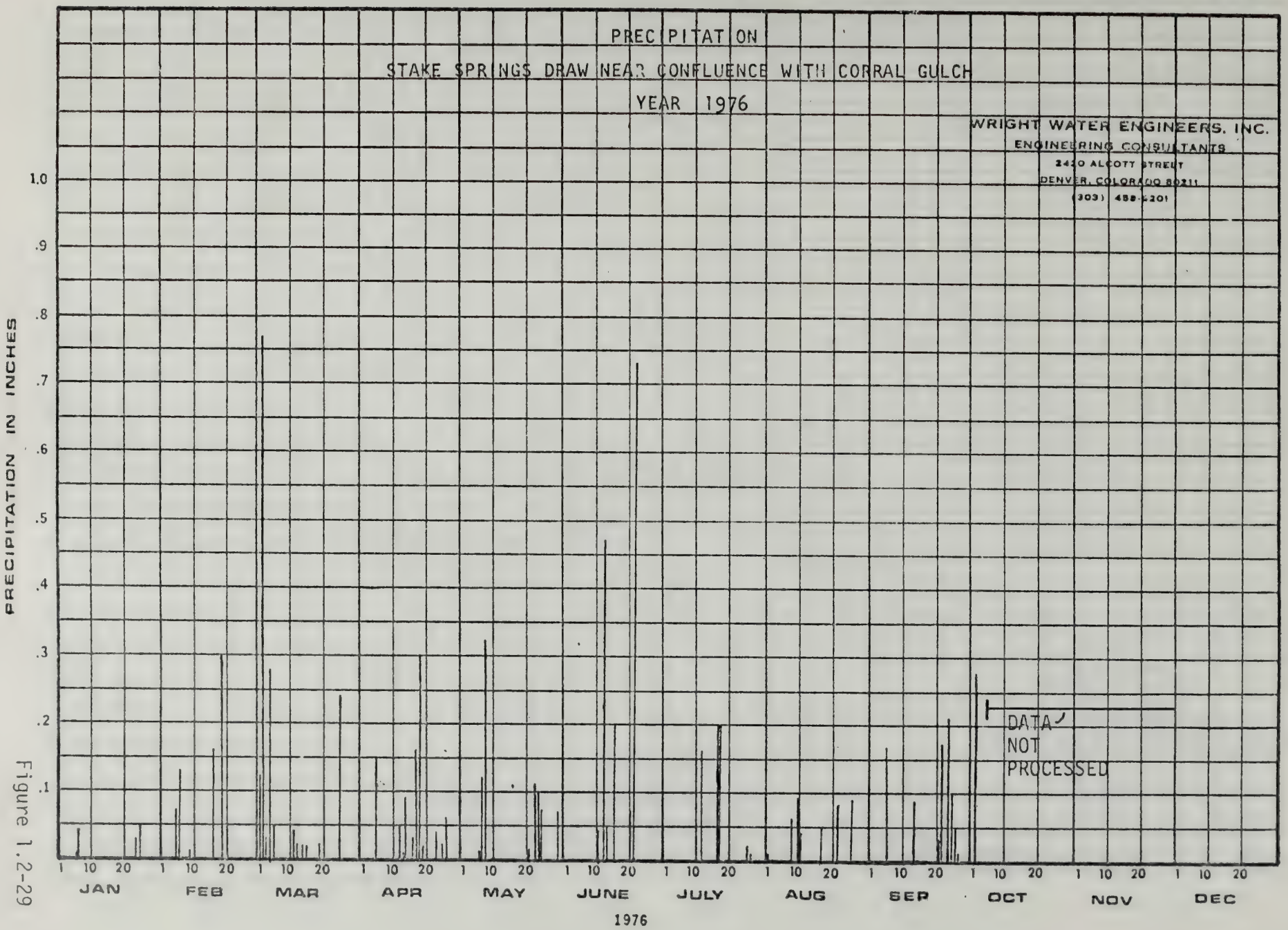
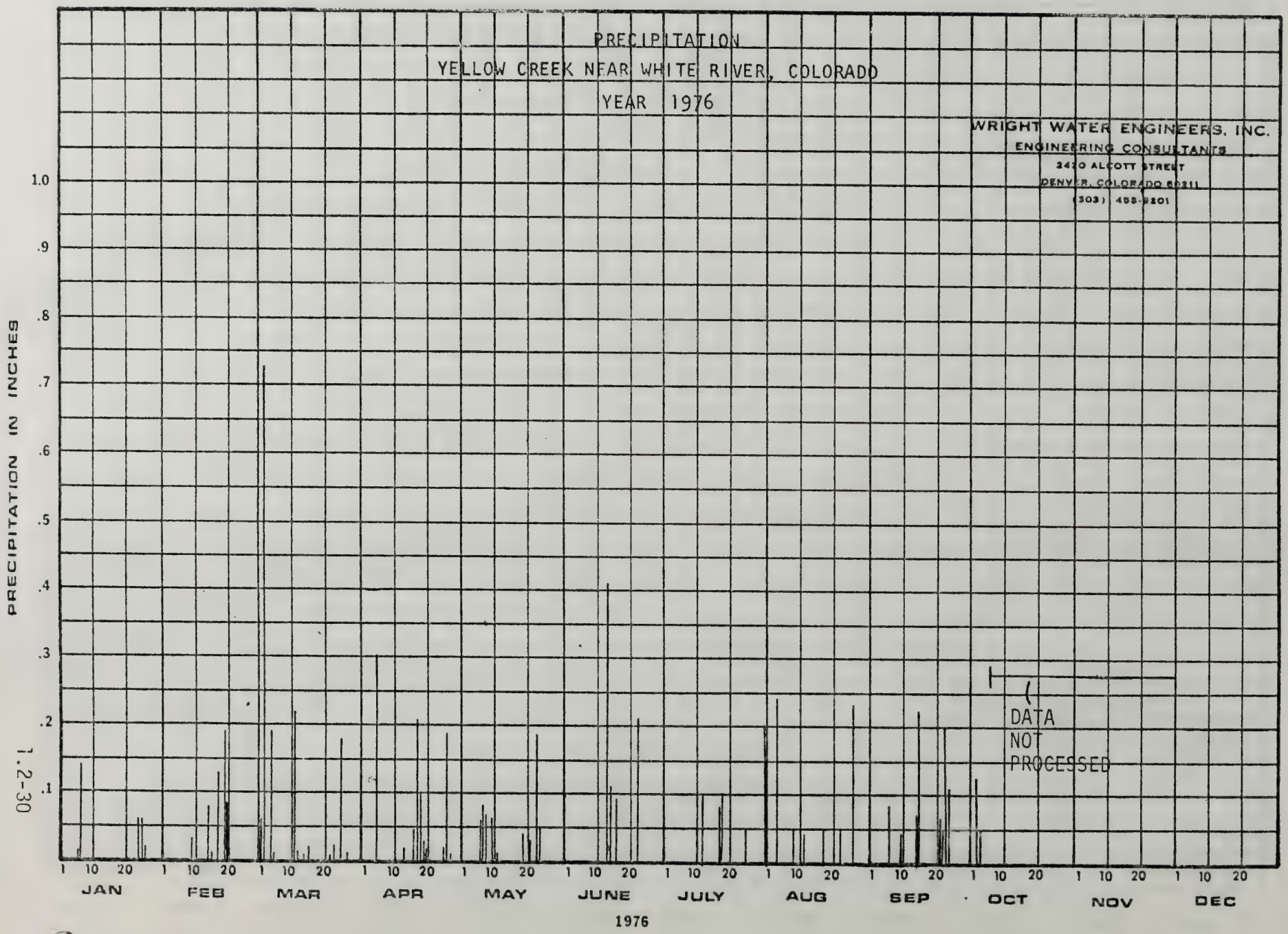

PRECIPITATION
STAKE SPRINGS DRAW NEAR CONFLUENCE WITH CORRAL GULCH
YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-5201
PRECIPITATION IN INCHES
1.0
.9
.8
.7
.6
.5
.4
.3
.2
.1
DATA NOT PROCESSED
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-29


PRECIPITATION
YELLOW CREEK NEAR WHITE RIVER, COLORADO
YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 455-5201
PRECIPITATION IN INCHES
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.6
.5
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DATA NOT PROCESSED
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DEC
1976

1.2-30

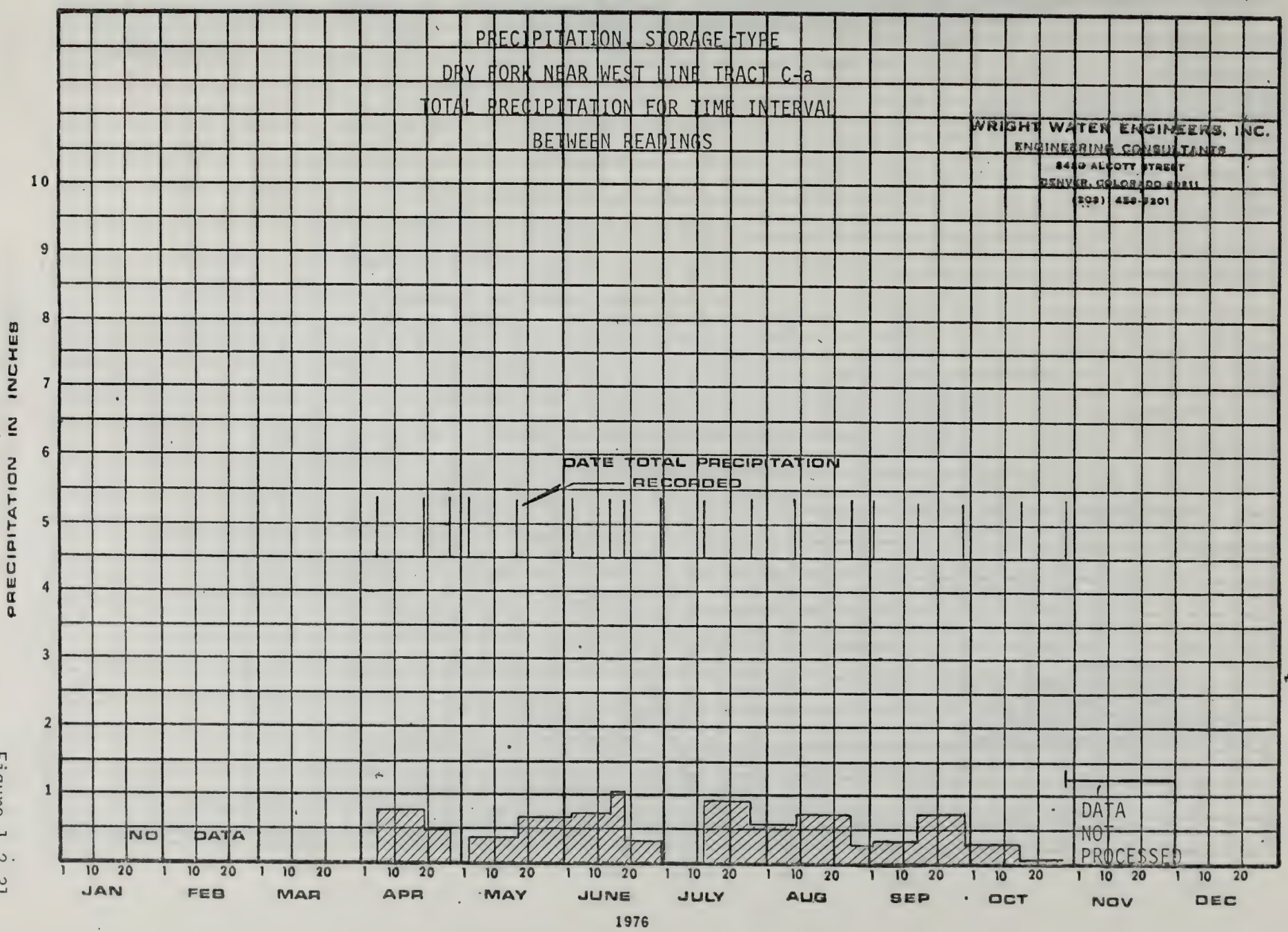
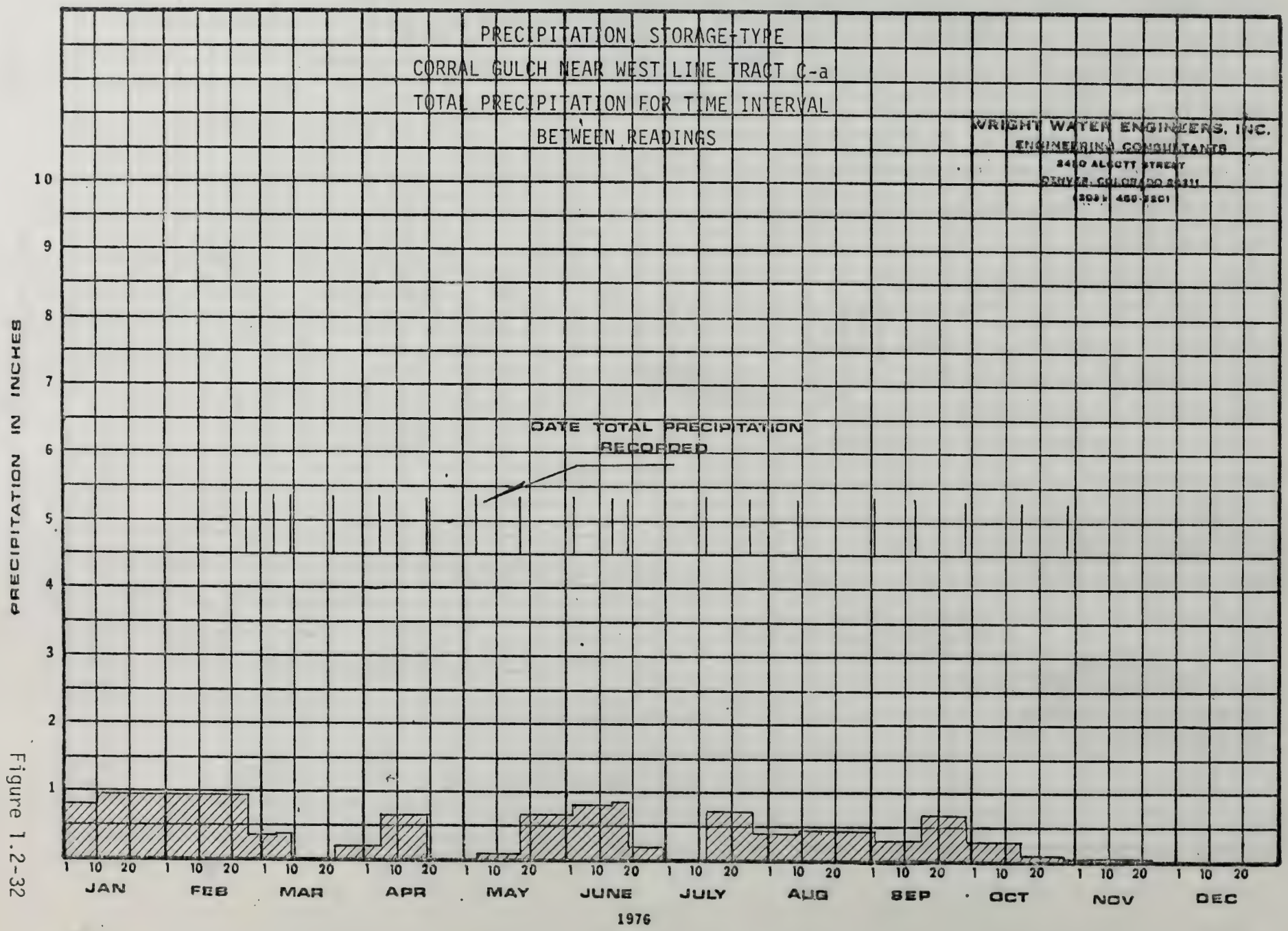

PRECIPITATION, STORAGE TYPE
DRY FORK NEAR WEST LINE TRACT C-a
TOTAL PRECIPITATION FOR TIME INTERVAL
BETWEEN READINGS
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
8450 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-5201
PRECIPITATION IN INCHES
10
9
8
7
6
5
4
3
2
1
DATE TOTAL PRECIPITATION
RECORDED
NO DATA
DATA
NOT
PROCESSED
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-31


PRECIPITATION, STORAGE-TYPE
CORRAL GULCH NEAR WEST LINE TRACT C-a
TOTAL PRECIPITATION FOR TIME INTERVAL
BETWEEN READINGS
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2490 ALCOTT STREET
DENVER, COLORADO 80211
(303) 480-1201
DATE TOTAL PRECIPITATION RECORDED
PRECIPITATION IN INCHES
10
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7
6
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4
3
2
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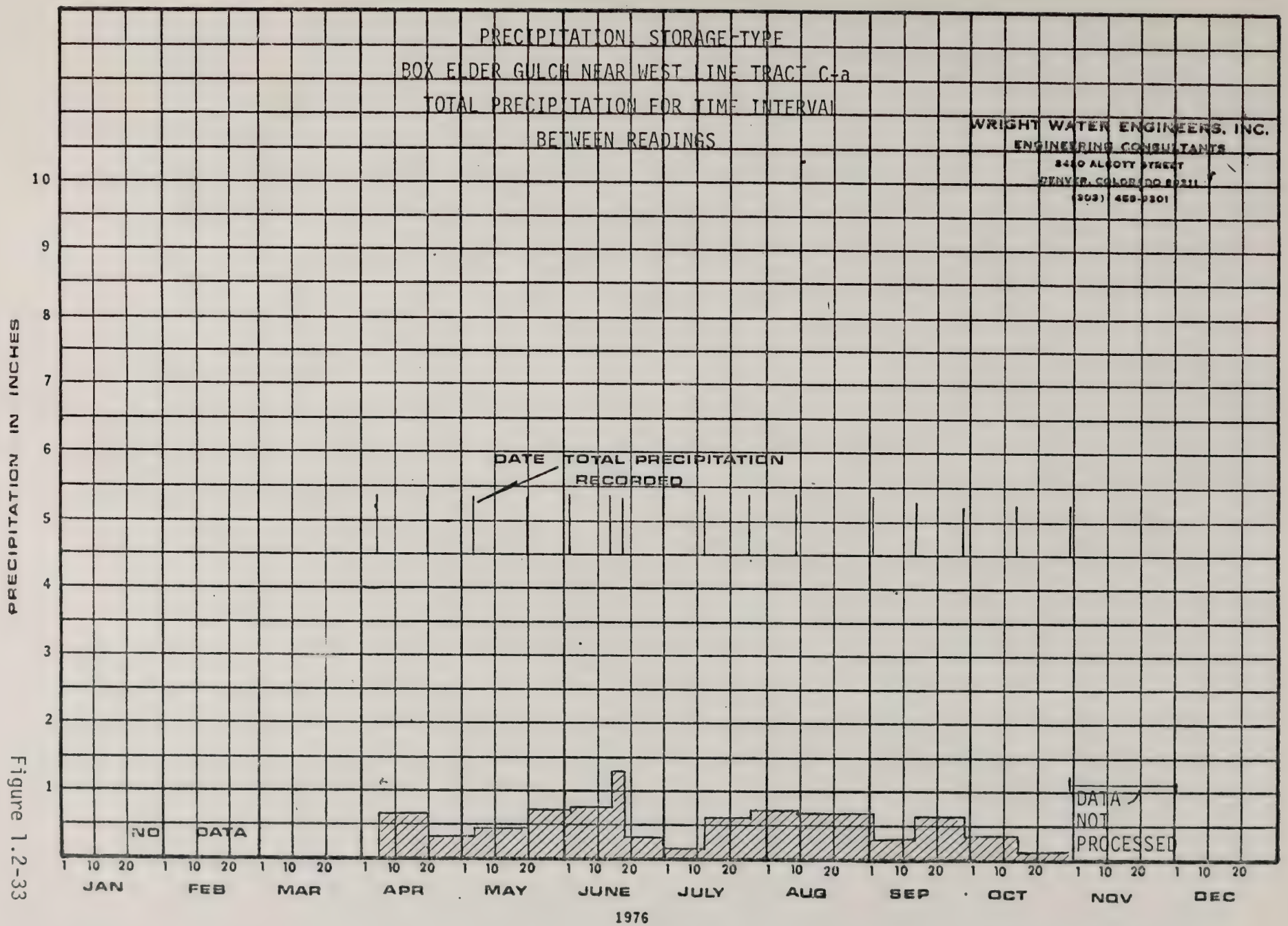
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-32


PRECIPITATION, STORAGE-TYPE
BOX ELDER GULCH NEAR WEST LINE TRACT C-a
TOTAL PRECIPITATION FOR TIME INTERVAL
BETWEEN READINGS
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2490 ALCOTT STREET
DENVER, COLORADO 80211
(303) 455-9301
PRECIPITATION IN INCHES
10
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5
4
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2
1
DATE TOTAL PRECIPITATION RECORDED
NO DATA
DATA NOT PROCESSED
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-33

1.2.3 ALLUVIAL AQUIFERS

The drilling and completion of fifteen alluvial aquifer test holes associated with Tract C-a were described in RBOSP Progress Reports 2, 3, and 4. The holes which encountered water were: G-S S-7, G-S S-8, G-S S-11, G-S S-12, G-S S-19, G-S S-22, G-S S-23 and G-S S-24. Continuous water level recorders (Stevens Type F) had been installed at G-S S-7, G-S S-8, G-S S-11 and G-S S-12. At the present G-S S-11 is the only alluvial hole which has a recorder installed. Water quality information, conductivity, temperature, pH, and water level data for the alluvial holes monitored on or near Tract C-a are shown in Figures 1.2-34 through 1.2-49.

According to the schedule approved by the Area Oil Shale Supervisor (AOSS) for the alluvial aquifer monitoring program, samples for standard chemical analysis should be collected in February, July, November, and monthly during the snowmelt flash flood season from April through September, Table 1.2- 14. The schedule also requires that all samples from the alluvial holes be filtered prior to laboratory analysis. This process is done in the field by means of a pressurized filtration unit.

During the quarter, the average water level declined in the alluvial holes by .91 feet. Alluvial holes G-S S-8 and G-S S-23 showed a downward trend over the quarter. G-S S-7 declined in September and rose in November. A rise in September and a decline in November occurred in alluvial holes G-S S-11 and G-S S-12. G-S S-19 showed a rise in November from the August water level measurement. Alluvial hole G-S S-22 showed no relative change through the quarter.

The alluvial holes were sampled twice during the quarter. They were sampled in September as part of the snowmelt and flash flood program, although G-S S-19 was not sampled at that time because

of the insufficient water in the hole. The light holes were then sampled again in November as part of the quarterly sampling program.

Field measurements of conductivity showed an average decrease of 80 umhos/cm in alluvial holes G-S S-7, G-S S-11, G-S S-22, and G-S S-24 since the August sampling period. G-S S-8, G-S S-12, and G-S S-23 showed an average increase of 130 umhos/cm over the quarter. Alluvial hole G-S S-19 showed an increase of 820 umhos/cm for the sample collected in November over the previous sample collected in August. Temperature ranged from 6.0^{o} C. at alluvial hole G-S S-11 to 9.0^{o} C. at G-S S-7. Over the quarter the temperatures were down in all alluvial wells.

Measurements of pH in the alluvial holes were between 6.0 and 6.8 in September. In November the range dropped to between 6.0 and 6.4. Over the quarter the pH dropped in all holes with the exception of G-S S-12 where the pH rose.

Correlation of increases between field-measured parameters (temperature, specific conductance, pH) was not possible. In part, this may be due to insufficient data points. However, the general trends for this quarter reflect the expected seasonal nature of precipitation and temperature. Increases in water levels generally follow the increase in precipitation. Temperature increases reflect the seasonal influence.

The water quality of the alluvial aquifers have remained relatively stable. Constituents showing major amounts are: Bicarbonate, magnesium, silicon dioxide, sodium, total dissolved solids, alkalinity, and sulfate. Levels of calcium

and magnesium were the only items which showed noticeable changes. Calcium levels were up and magnesium levels were down in alluvial holes G-S S-7, G-S S-8, and G-S S-24. Magnesium levels were up and calcium levels were down in G-S S-11, G-S S-12, G-S S-19, and G-S S-23. Magnesium and calcium levels remained stable in G-S S-22. Table 1.2-15 and 1.2-16 present the summaries of the water quality analyses.

TABLE 1.2-14

DATA COLLECTION SCHEDULE FOR ALLUVIAL HOLES

Monthly

Water Levels Measured

February, July, November Plus Snowmelt-Flash Flood Seasons (April to Sept.)

Water Samples Analyzed For:

Alkalinity	Dissolved Solids	Silica
Ammonia	Fluoride	Sodium
Boron	Iron	Sulfate
Bicarbonate	Magnesium	Color
Calcium	Manganese	Odor
Carbonate	Kjeldahl Nitrogen	pH
Chloride	Nitrate plus Nitrite	Temperature
Conductance	Orthophosphate	
Dissolved Organic Carbon	Dissolved Phosphate	
	Potassium	

February, July, November

Water Samples Analyzed For:

DO	Ba	Ti	Cu
Bromide	Be	V	Pb
Cyanide	Bi	Zr	Li
BOD	Ge	Al	Mo
COD	Ga	As	Hg
Phenols	Ni	Cd	Se
Sulfide	Sr	Cr	Se
			Sr
			Zn

Radioactivity
- Gross Alpha
  - If >4 pci/l
    - then
      - RA 226,
      - Natural Uranium
- Gross Beta
  - If >100 pci/l
    - then
      - SR^{90}
      - Ce^{137}

July or August

Samples Analyzed For:

Fecal Coliform
Total Coliform
MBAS

TABLE 1.2-15

SUMMARY OF WET CHEMICAL ANALYSIS
ALLUVIAL AQUIFER
Values in mg/l
MARCH 1975 THROUGH NOVEMBER 1976

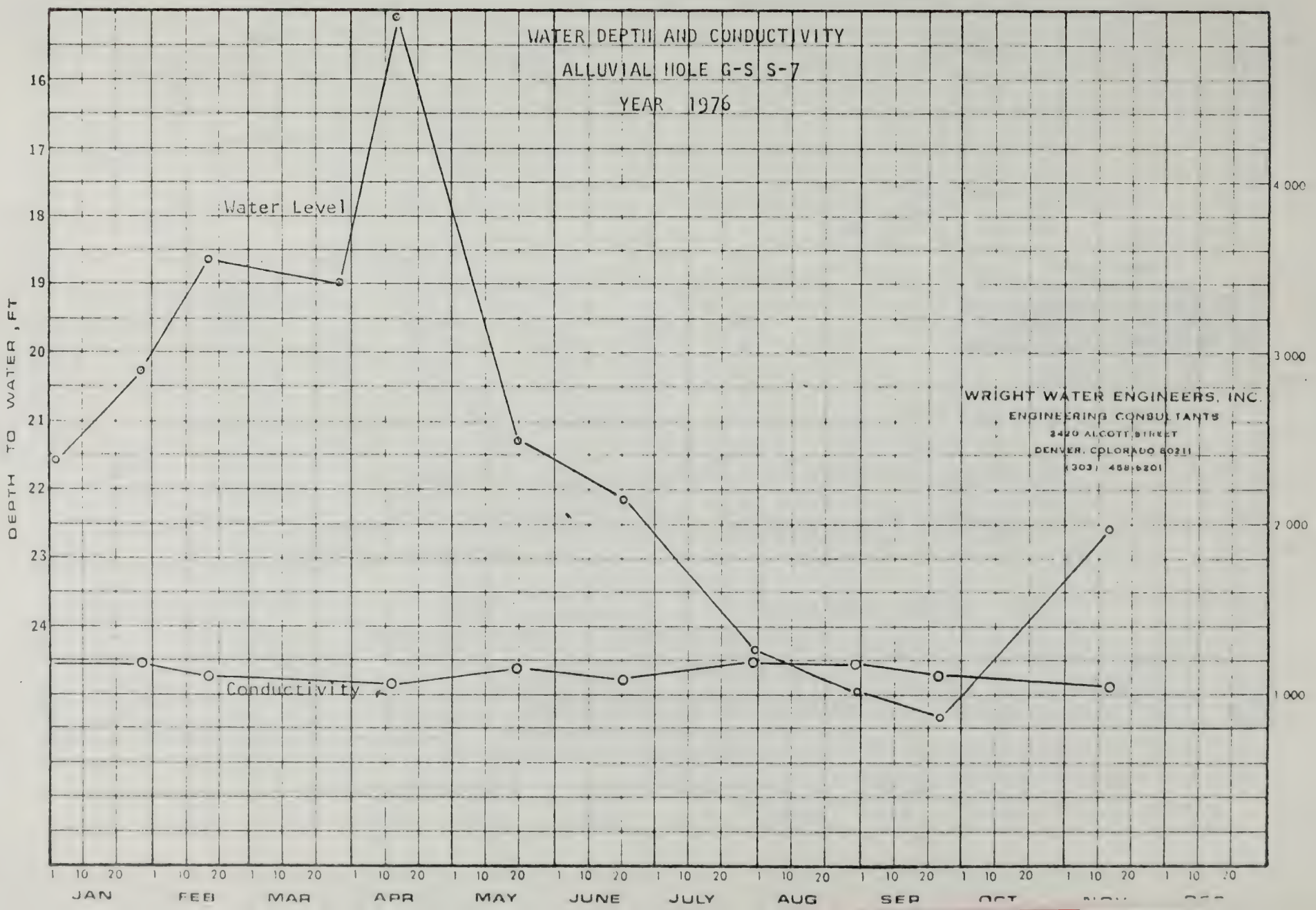
Item	Low	High	Average	# Items Averaged	Std. Dev.
Alkalinity	51.000	1505	472.237	148	126.640
Aluminum	< 0.100	1.200	0.078	18	0.282
Ammonia	0.030	6.4	0.537	107	0.883
Arsenic	< 0.010	< 0.100		118	0.001
Barium	< 1.000	< 1.900		97	
Bicarbonate	360	780	559.763	148	100.308
Boron	< 0.010	27.000	1.107	140	2.738
Cadmium	< 0.010	< 1.100	0.029	118	0.108
Calcium	28.000	240.000	99.189	148	34.892
Carbonate	< 0.010	605.000	11.837	147	52.280
Chloride	1.300	71.000	18.017	148	9.037
Chromium	< 0.010	0.200	0.008	117	0.035
Conductivity (umhos/cm)	860.000	2370.000	1549.480	134	359.286
Copper	< 0.010	8.000	0.453	118	0.035
Cyanide	< 0.010	0.200	0.003	119	0.019
Dissolved Solids	640.000	2090.000	1184.257	148	290.734
Fluoride	< 0.100	1.200	0.331	147	0.176
Gross Alpha (pci/l)	1.400	31.000	11.992	84	6.759
Gross Beta (pci/l)	1.000	35.000	13.340	30	10.009
Hardness (total)	280.000	820.000	599.776	134	140.835
Iron	< 0.050	28.000	4.940	148	5.840
Lead	0.010	13.000	0.328	117	1.203
Magnesium	3.700	150.000	87.527	148	36.541
Manganese	< 0.050	27.000	2.430	140	4.228
Mercury	< 0.001	< 0.010		118	
Nickel	0.010	0.200	0.074	96	0.057
Nitrate	< 0.100	165.000	6.467	133	15.206
pH	< 6.000	7.200	6.401	145	0.620
Phosphate	< 0.010	1.600	0.072	148	0.187
Selenium	< 0.010	< 0.100			
Silicon Dioxide	16.000	44.000	29.953	148	5.183
Silver	< 0.010	< 0.100	0.007	95	0.013
Sodium	66.000	450.000	189.000	148	60.329
Sulfate	145.000	1000.000	459.257	148	158.709
Zinc	0.100	13.000	0.621	116	1.370
Potassium	< 1.000	16.000	5.531	51	3.970
Lithium	< 0.100	0.100	0.009	22	0.029
Total Organic Carbon	2.900	292.000	45.501	104	59.319
Nitrite -N	< 0.010	0.150	6.087	44	23.425
Bromide	0.100	0.900	0.429	14	0.354
Chemical Oxygen Demand	2.500	85.000	21.577	22	17.866
Phenols	< 0.001	0.013	0.002	22	0.004
Kjeldahl N	< 0.100	8.800	2.096	52	1.907
Beryllium	< 0.020	2.500	0.612	8	0.884
Ortho Phosphate	< 0.100	1.000	0.050	46	0.160
Ammonia -N	< 0.100	5.300	0.533	30	1.044
Dissolved Organic Carbon	2.000	3.000	2.125	8	0.354
MBAS	< 0.010	< 0.010		6	
Total Coliform	< 10.000	250.000	81.429	7	91.911
Fecal Colifrom	< 10.000	40.000	8.571	7	15.736

TABLE 1.2-16

SUMMARY OF QUALITATIVE SPECTROGRAPHIC ANALYSIS
ALLUVIAL AQUIFER
Values in mg/l
MARCH 1975 THROUGH NOVEMBER 1976

Item	Low	High	Average	# Items Averaged	Std. Dev.
Aluminum	0.005	5.000	0.458	119	0.959
Antimony	---	---	---	0	---
Arsenic	---	---	---	0	---
Barium	0.001	0.050	0.008	51	0.013
Beryllium	0.001	0.001	0.001	5	0.000
Bismuth	---	---	---	0	---
Boron	0.010	0.500	0.352	119	0.178
Cadmium	---	---	---	0	---
Calcium	10.000	Major	10.000	6	0.000
Cerium	---	---	---	0	---
Cesium	0.001	0.001	0.001	1	0.000
Chromium	---	0.020	0.004	17	0.006
Cobalt	0.001	0.001	0.001	4	0.000
Columbium	---	---	---	0	---
Copper	0.001	0.050	0.013	118	0.014
Dysprosium	---	---	---	0	---
Erbium	---	---	---	0	---
Europium	---	---	---	0	---
Gadolinium	---	---	---	0	---
Gallium	0.001	0.010	0.004	6	0.005
Germanium	0.001	0.001	0.001	1	0.000
Gold	---	---	---	0	---
Hafnium	---	---	---	0	---
Holmium	---	---	---	0	---
Indium	---	---	---	0	---
Iridium	---	---	---	0	---
Iron	0.001	5.000	0.262	119	0.728
Lanthanum	---	---	---	0	---
Lead	0.001	0.500	0.032	50	0.079
Lithium	0.001	0.100	0.007	85	0.015
Lutetium	---	---	---	0	---
Mangesium	5.000	Major	2228.111	9	4405.680
Manganese	0.001	0.500	0.066	104	0.119
Mercury	---	---	---	0	---
Molybdenum	0.001	0.050	0.010	79	0.014
Neodymium	---	---	---	0	---
Nickel	0.001	0.070	0.011	7	0.026
Osmium	---	---	---	0	---
Palladium	---	---	---	0	---
Platinum	---	---	---	0	---
Potassium	0.010	2.000	0.547	119	0.509
Praseodymium	---	---	---	0	---
Radium (pci/l)	0.100	1.200	0.335	60	0.231
Rhenium	---	---	---	0	---
Rhodium	---	---	---	0	---
Rubidium	---	---	---	0	---
Ruthenium	---	---	---	0	---
Samarium	---	---	---	0	---
Scandium	---	---	---	0	---
Selenium	---	---	---	0	---
Silicon	2.000	Major	4.897	117	2.601
Silver	---	0.100	0.008	38	0.022
Sodium	1.000	Major	6.239	88	2.758
Strontium	0.010	0.100	0.105	116	0.085
Tantalum	---	---	---	0	---
Terbium	---	---	---	0	---
Thallium	---	---	---	0	---
Thorium	---	---	---	0	---
Thulium	---	---	---	0	---
Tin	0.001	0.001	0.001	15	0.000
Titanium	0.001	1.000	0.029	91	0.118
Tungsten	---	---	---	0	---
Uranium	---	---	---	0	---
Vanadium	0.001	0.020	0.007	10	0.008
Ytterbium	0.001	0.001	0.001	5	0.000
Yttrium	0.010	0.020	0.010	5	0.004
Zinc	0.001	0.020	0.005	44	0.006
Zirconium	0.010	0.010	0.010	2	0.000

--- Less than minimum detectable amount
Major - Concentration too large to quantify (see wet chemical analysis)


WATER DEPTH AND CONDUCTIVITY
ALLUVIAL HOLE G-S S-7
YEAR 1976
Water Level
Conductivity
DEPTH TO WATER, FT
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17
18
19
20
21
22
23
24
SPECIFIC CONDUCTANCE, MICROMHOS/CM
4 000
3 000
2 000
1 000
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2490 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
1 10 20
JAN
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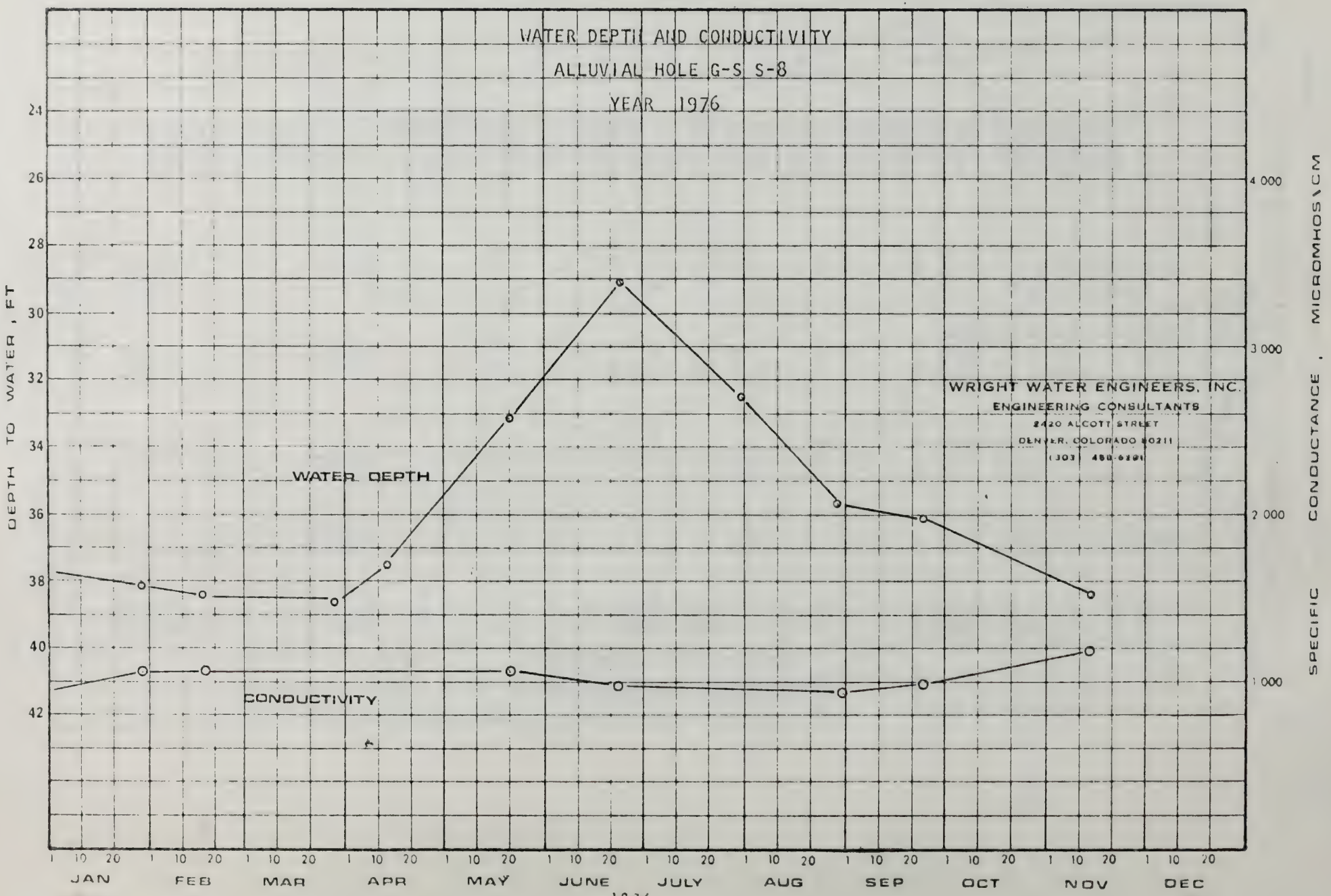
Figure 1.2-34


WATER DEPTH AND CONDUCTIVITY
ALLUVIAL HOLE G-S S-8
YEAR 1976
DEPTH TO WATER, FT
24
26
28
30
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34
36
38
40
42
SPECIFIC CONDUCTANCE, MICROMHOS/CM
4 000
3 000
2 000
1 000
WATER DEPTH
CONDUCTIVITY
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
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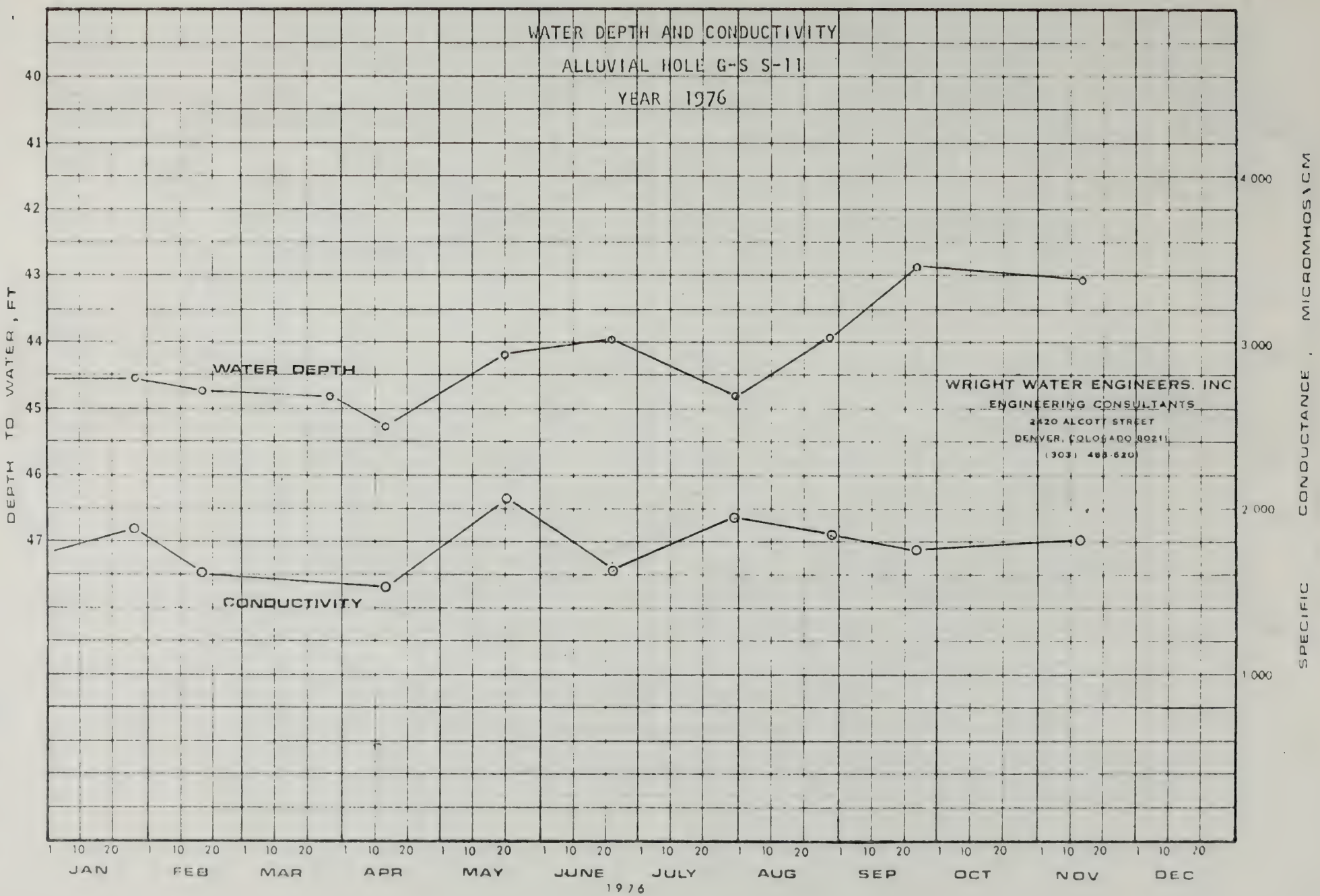
Figure 1.2-35


WATER DEPTH AND CONDUCTIVITY
ALLUVIAL HOLE G-S S-11
YEAR 1976
DEPTH TO WATER, FT
40
41
42
43
44
45
46
47
SPECIFIC CONDUCTANCE, MICROMHOS/CM
4 000
3 000
2 000
1 000
WATER DEPTH
CONDUCTIVITY
WRIGHT WATER ENGINEERS, INC
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6200
1 10 20
JAN
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JUNE
JULY
AUG
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OCT
NOV
DEC
1976

Figure 1.2-36

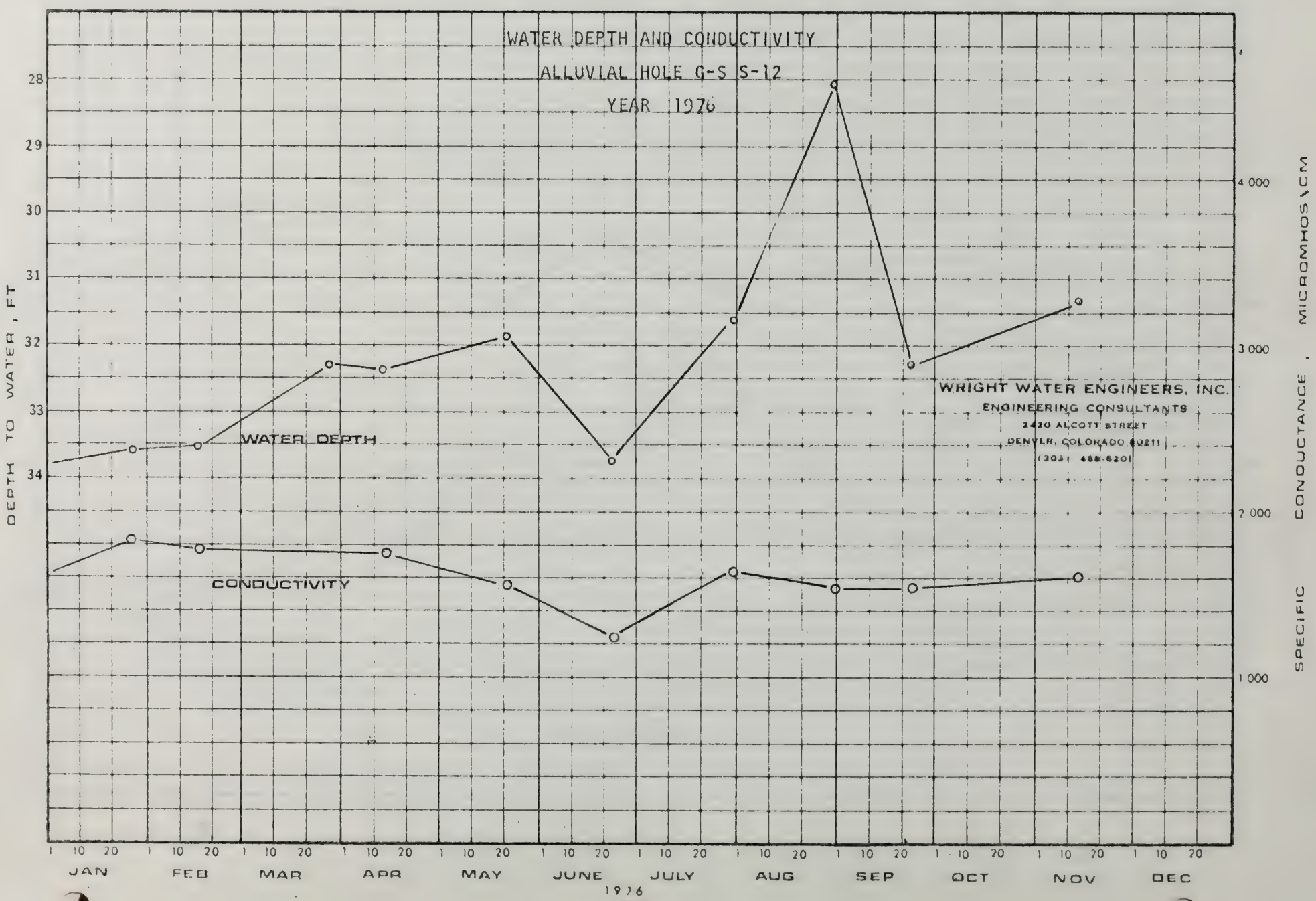

WATER DEPTH AND CONDUCTIVITY
ALLUVIAL HOLE G-S S-12
YEAR 1976
DEPTH TO WATER, FT
28
29
30
31
32
33
34
SPECIFIC CONDUCTANCE, MICROMHOS/CM
4 000
3 000
2 000
1 000
WATER DEPTH
CONDUCTIVITY
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
1 10 20
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
1976

Figure 1.2-37

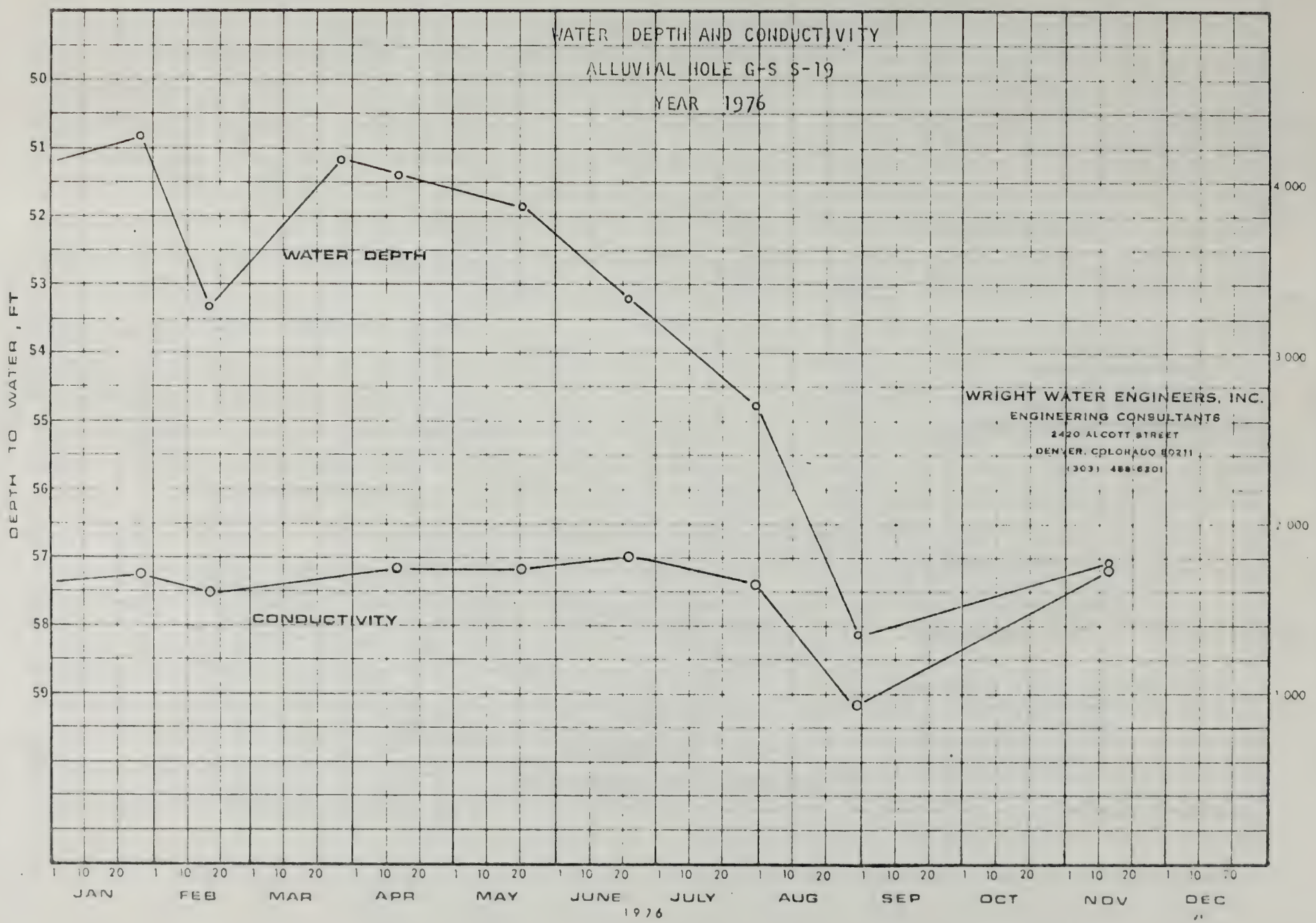

WATER DEPTH AND CONDUCTIVITY
ALLUVIAL HOLE G-S S-19
YEAR 1976
WATER DEPTH
CONDUCTIVITY
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 488-6301
DEPTH TO WATER, FT
50
51
52
53
54
55
56
57
58
59
SPECIFIC CONDUCTANCE, MICROMHOS/CM
4 000
3 000
2 000
1 000
1 10 20
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
1976

Figure 1.2-38

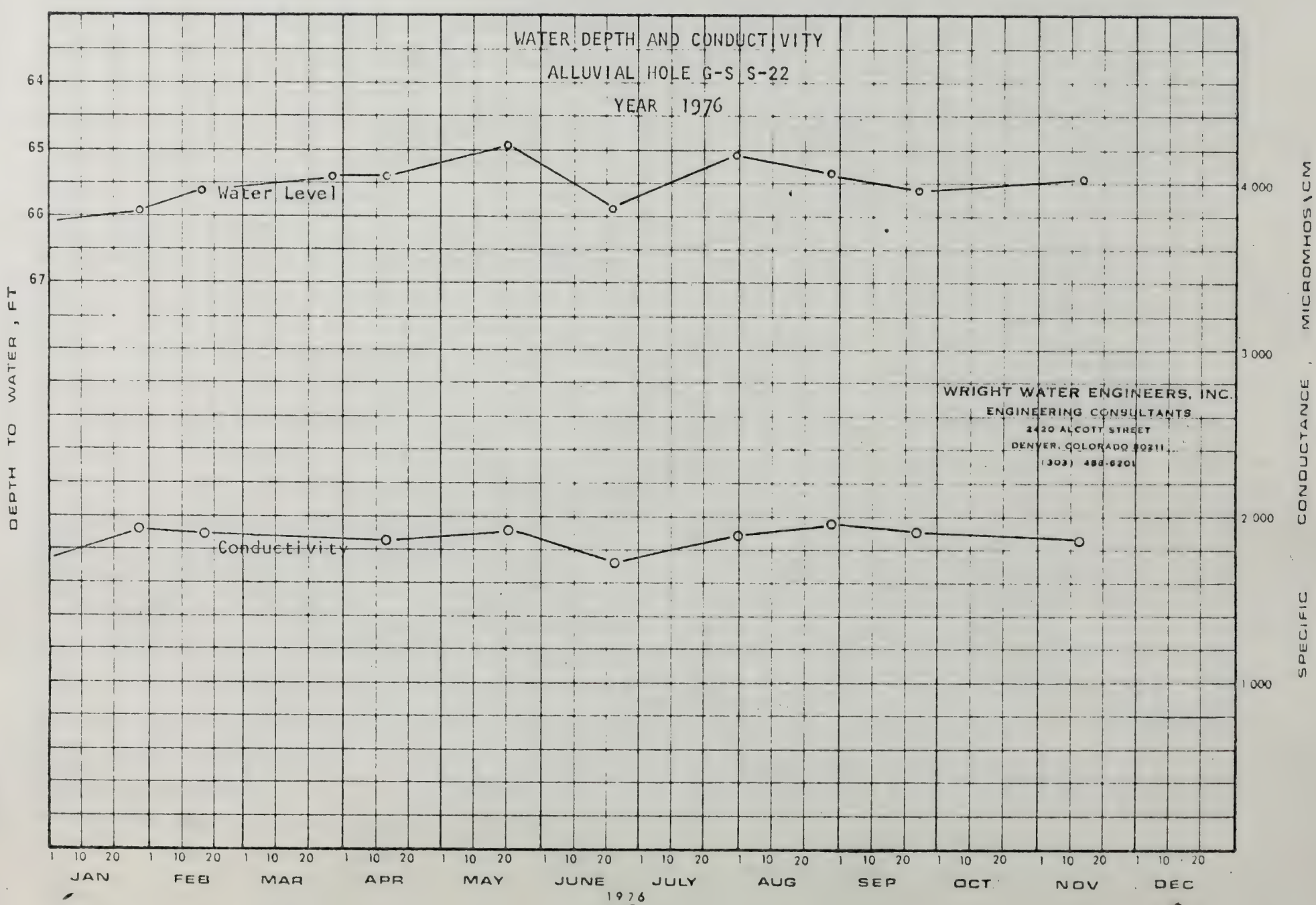

WATER DEPTH AND CONDUCTIVITY
ALLUVIAL HOLE G-S S-22
YEAR 1976
Water Level
Conductivity
DEPTH TO WATER, FT
64
65
66
67
SPECIFIC CONDUCTANCE, MICROMHOS/CM
4 000
3 000
2 000
1 000
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-39

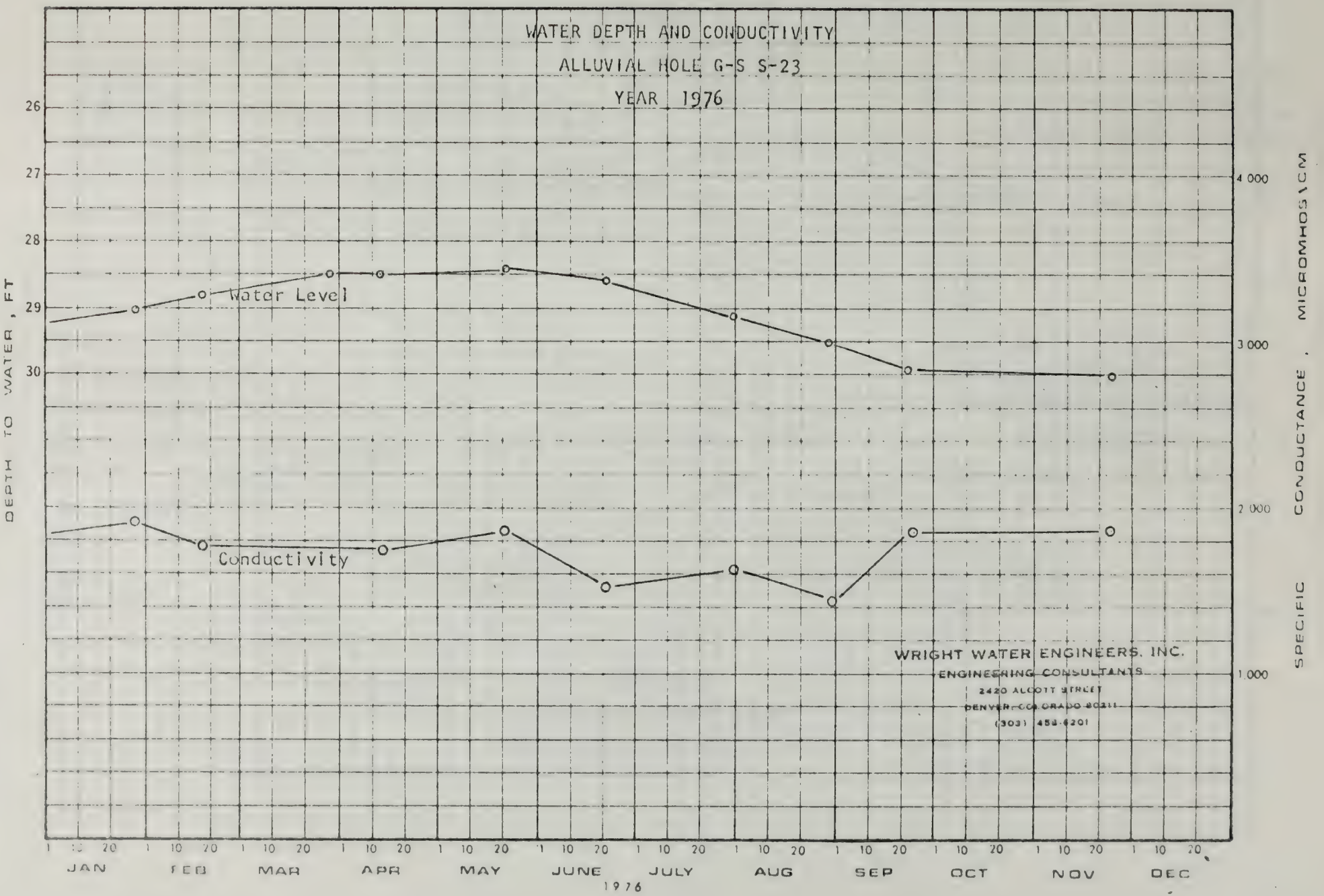

WATER DEPTH AND CONDUCTIVITY
ALLUVIAL HOLE G-S S-23
YEAR 1976
DEPTH TO WATER, FT
26
27
28
29
30
Water Level
Conductivity
SPECIFIC CONDUCTANCE, MICROMHOS/CM
4 000
3 000
2 000
1 000
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201

Figure 1.2-40

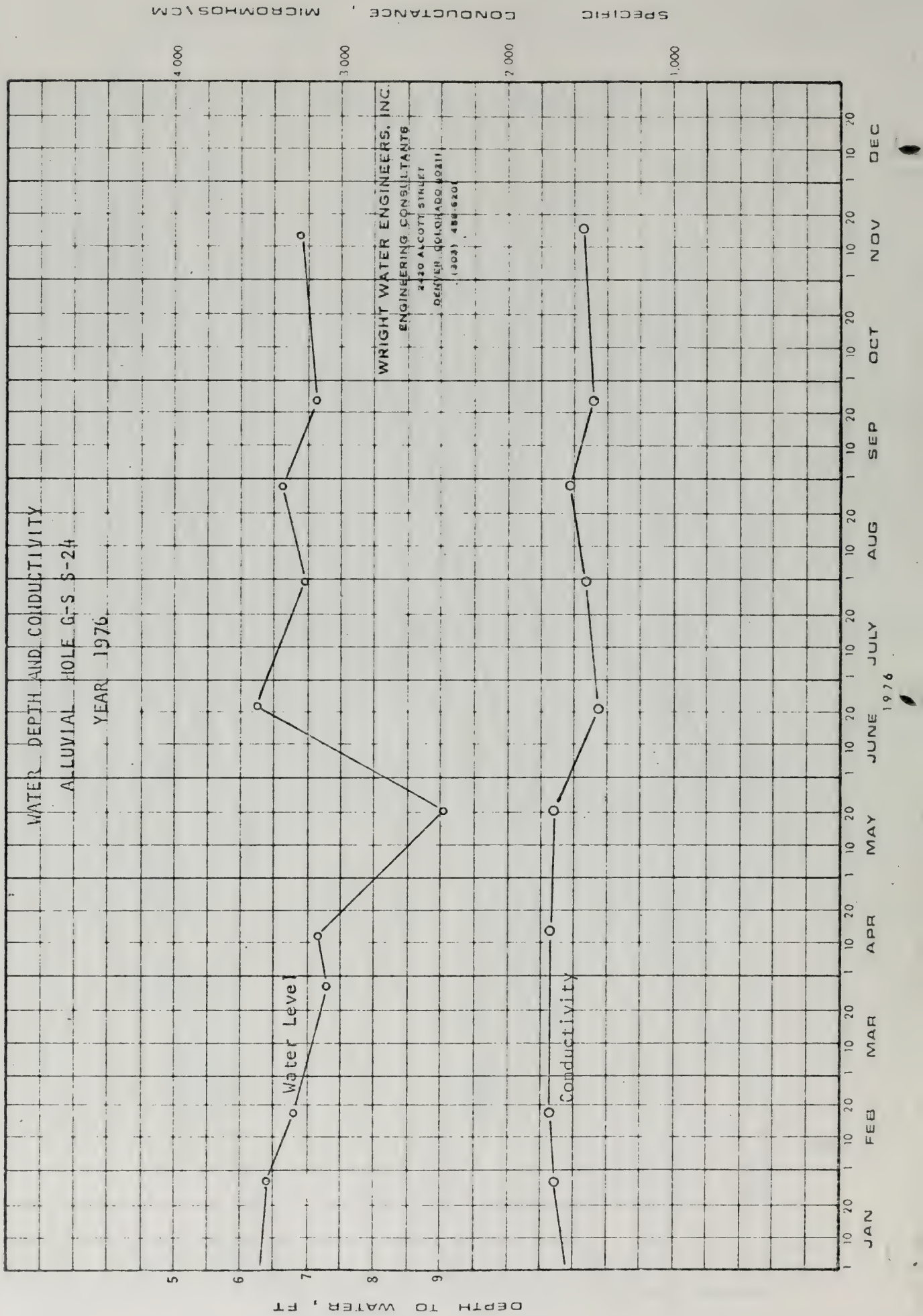

WATER DEPTH AND CONDUCTIVITY
ALLUVIAL HOLE G-S S-24
YEAR 1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
Water Level
Conductivity
DEPTH TO WATER, FT
SPECIFIC CONDUCTANCE, MICROMHOS/CM
5
6
7
8
9
4000
3000
2000
1000
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEP
OCT
NOV
DEC
1976

Figure 1.2-41

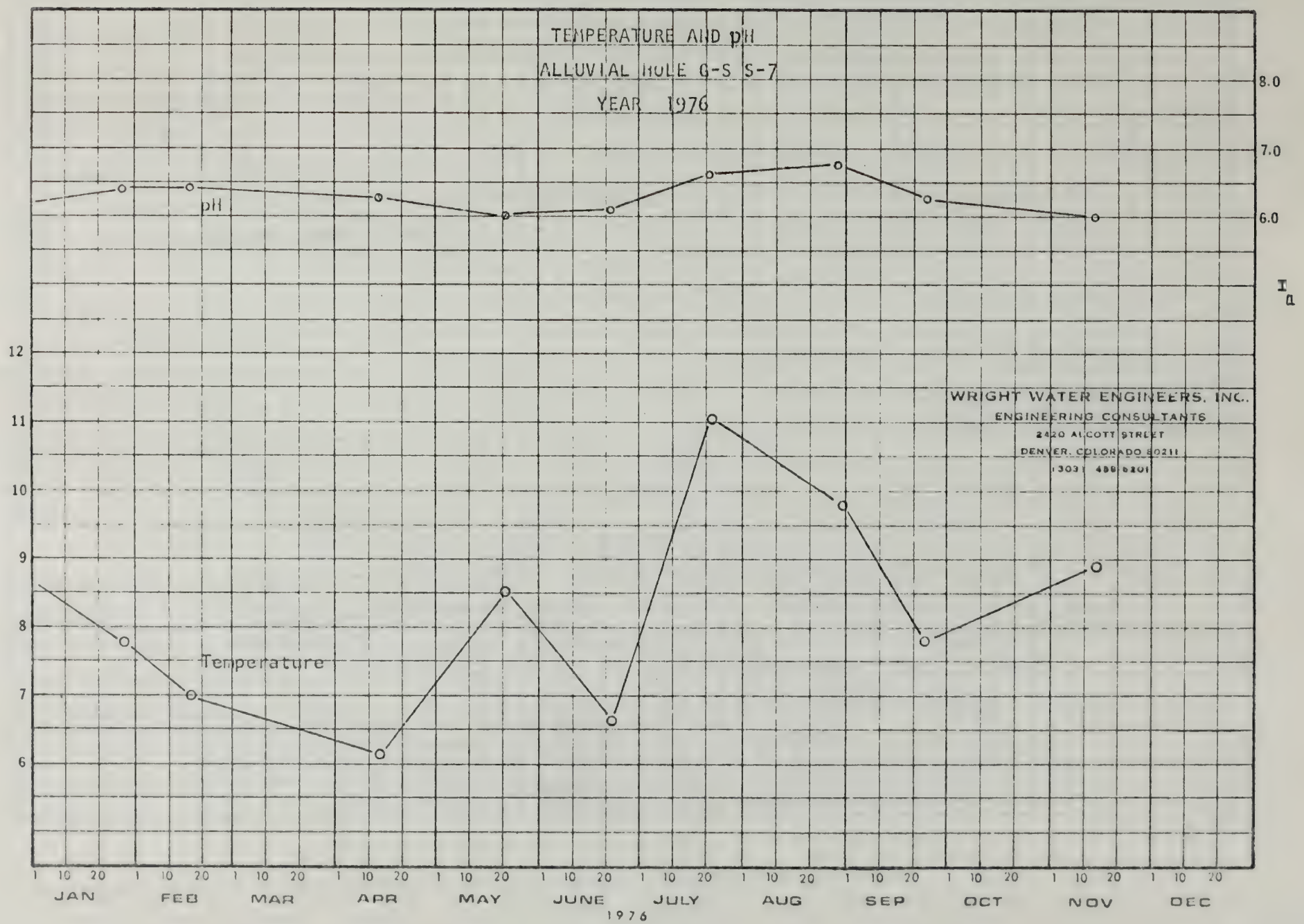

TEMPERATURE AND pH
ALLUVIAL HOLE G-S S-7
YEAR 1976
pH
Temperature
8.0
7.0
6.0
pH
12
11
10
9
8
7
6
°C TEMPERATURE
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-5201
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-42

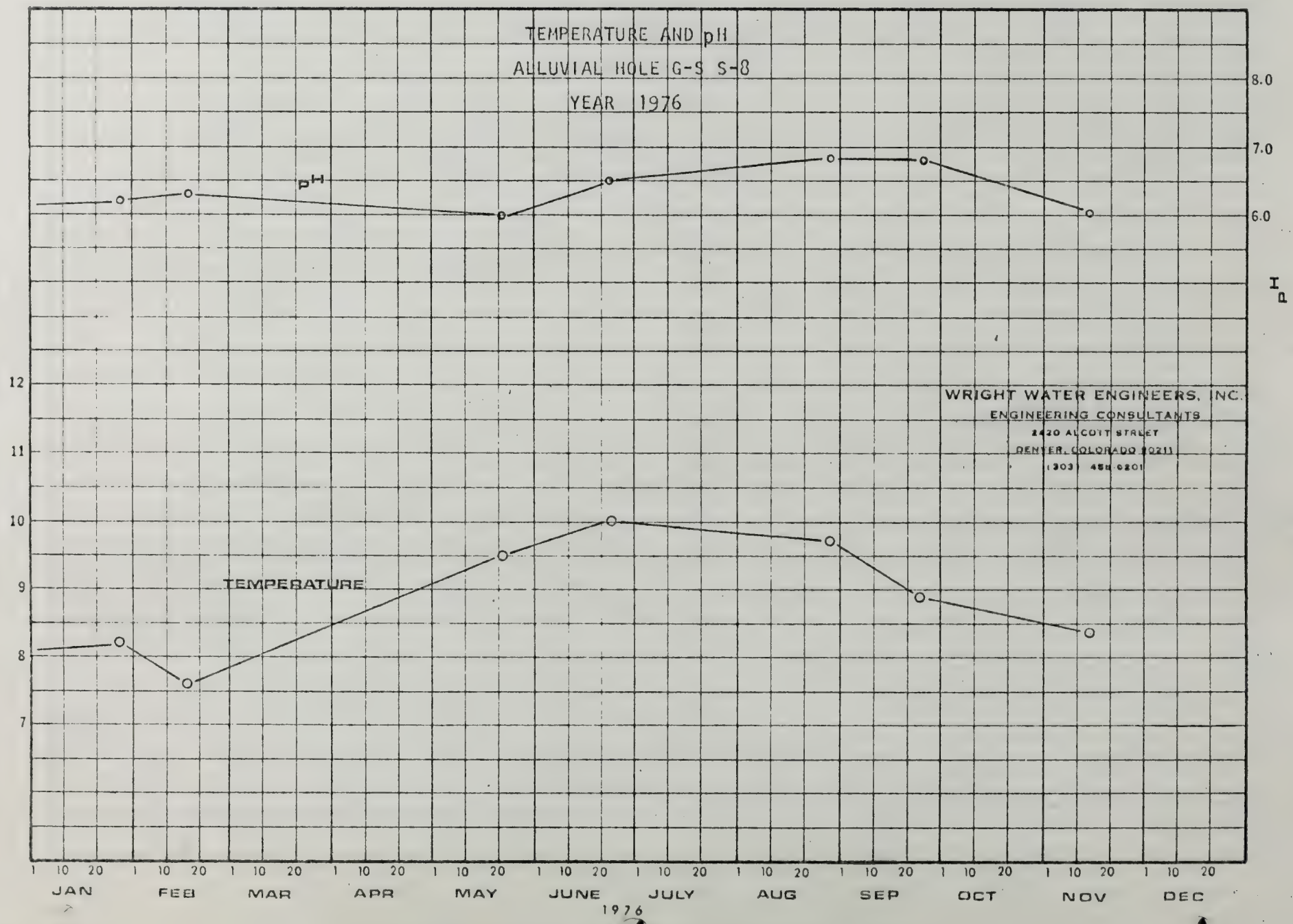

TEMPERATURE AND pH
ALLUVIAL HOLE G-S S-8
YEAR 1976
pH
TEMPERATURE
8.0
7.0
6.0
pH
12
11
10
9
8
7
TEMPERATURE °C
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-0201
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-43

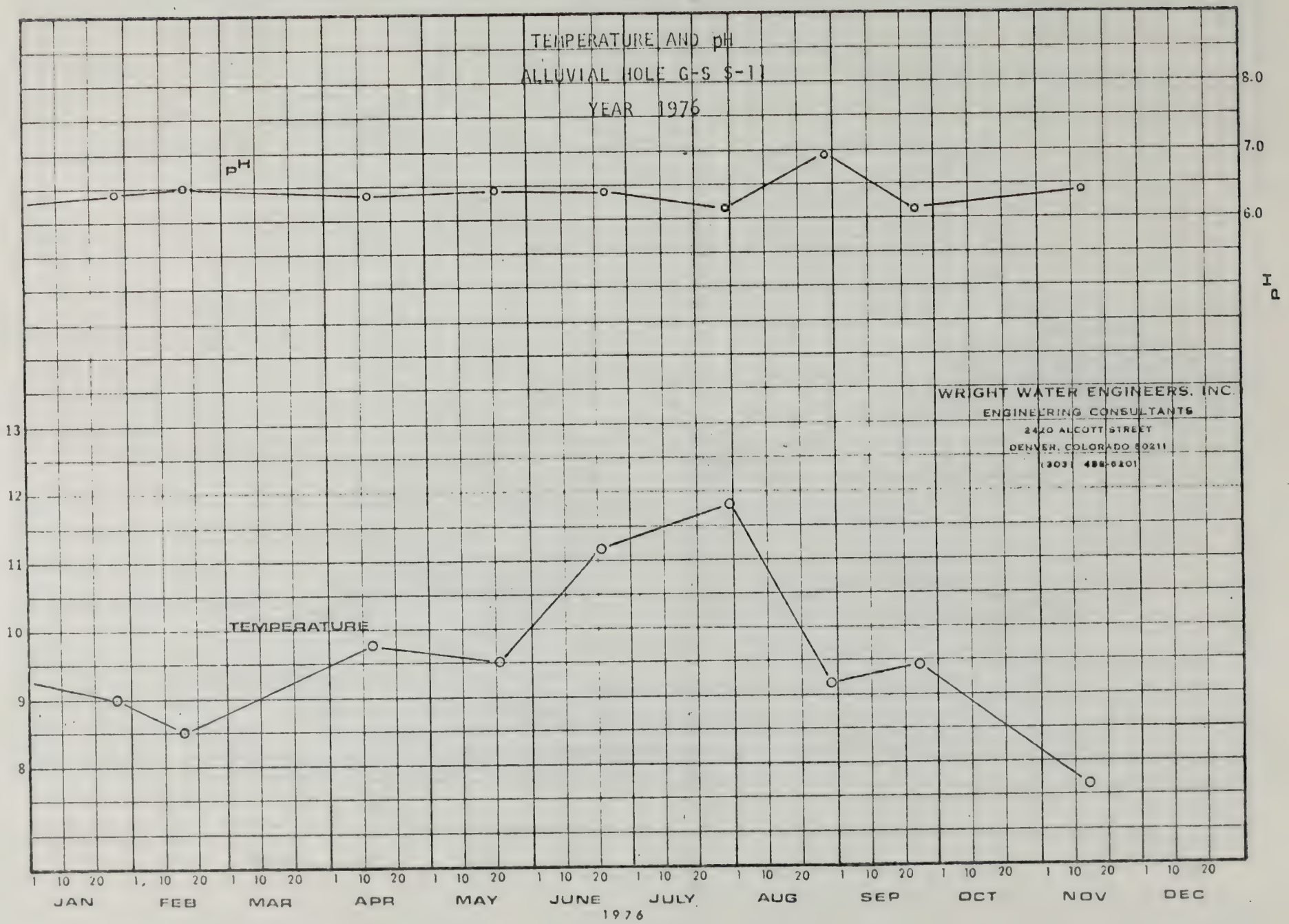

TEMPERATURE AND pH
ALLUVIAL HOLE G-S S-11
YEAR 1976
pH
TEMPERATURE
8.0
7.0
6.0
pH
13
12
11
10
9
8
TEMPERATURE °C
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 455-6201
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-44

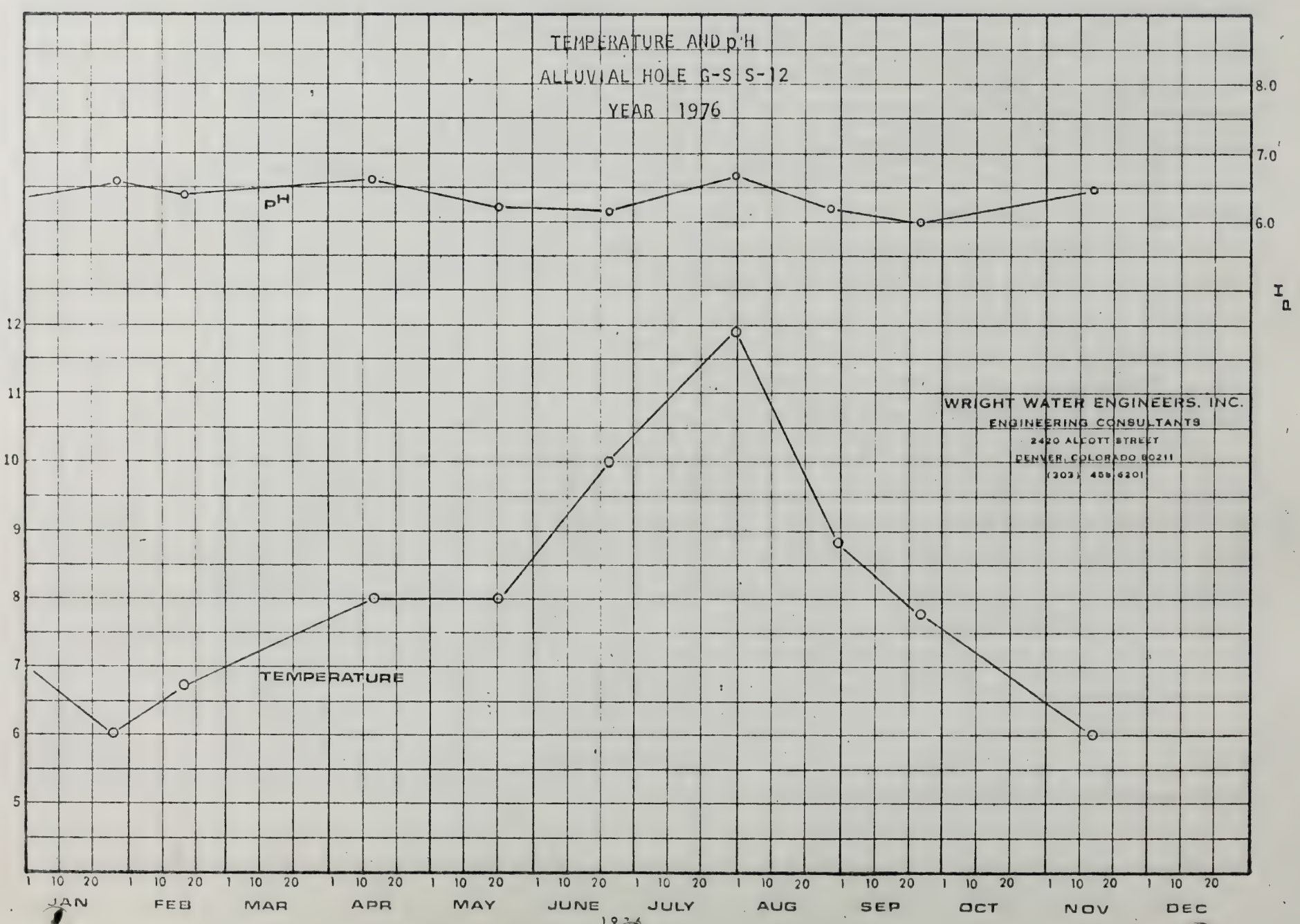

TEMPERATURE AND pH
ALLUVIAL HOLE G-S S-12
YEAR 1976
pH
TEMPERATURE
TEMPERATURE °C
pH
8.0
7.0
6.0
12
11
10
9
8
7
6
5
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 455-6201

Figure 1.2-45

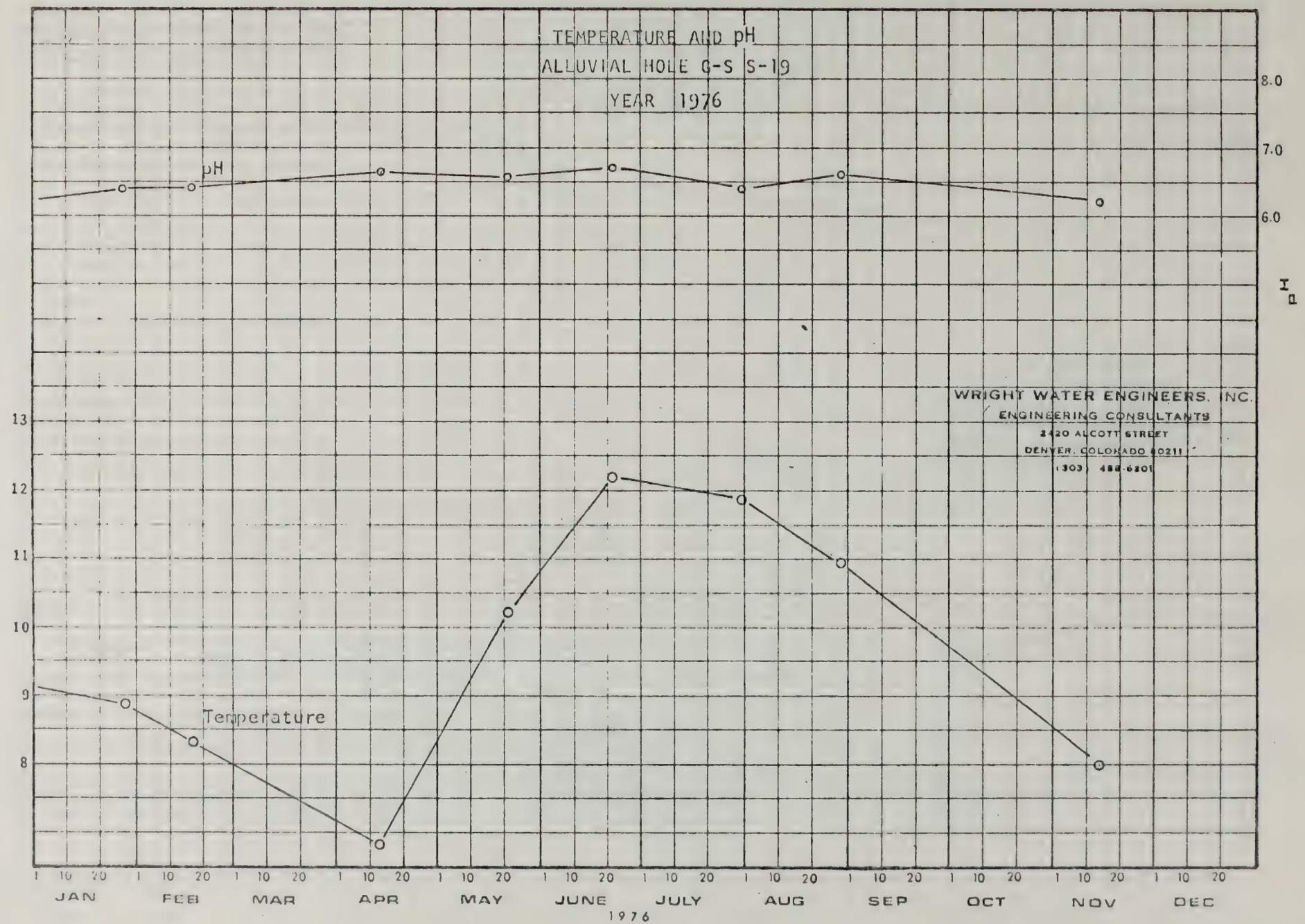

TEMPERATURE AND pH
ALLUVIAL HOLE G-S S-19
YEAR 1976
pH
Temperature
8.0
7.0
6.0
pH
13
12
11
10
9
8
TEMPERATURE °C
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-46

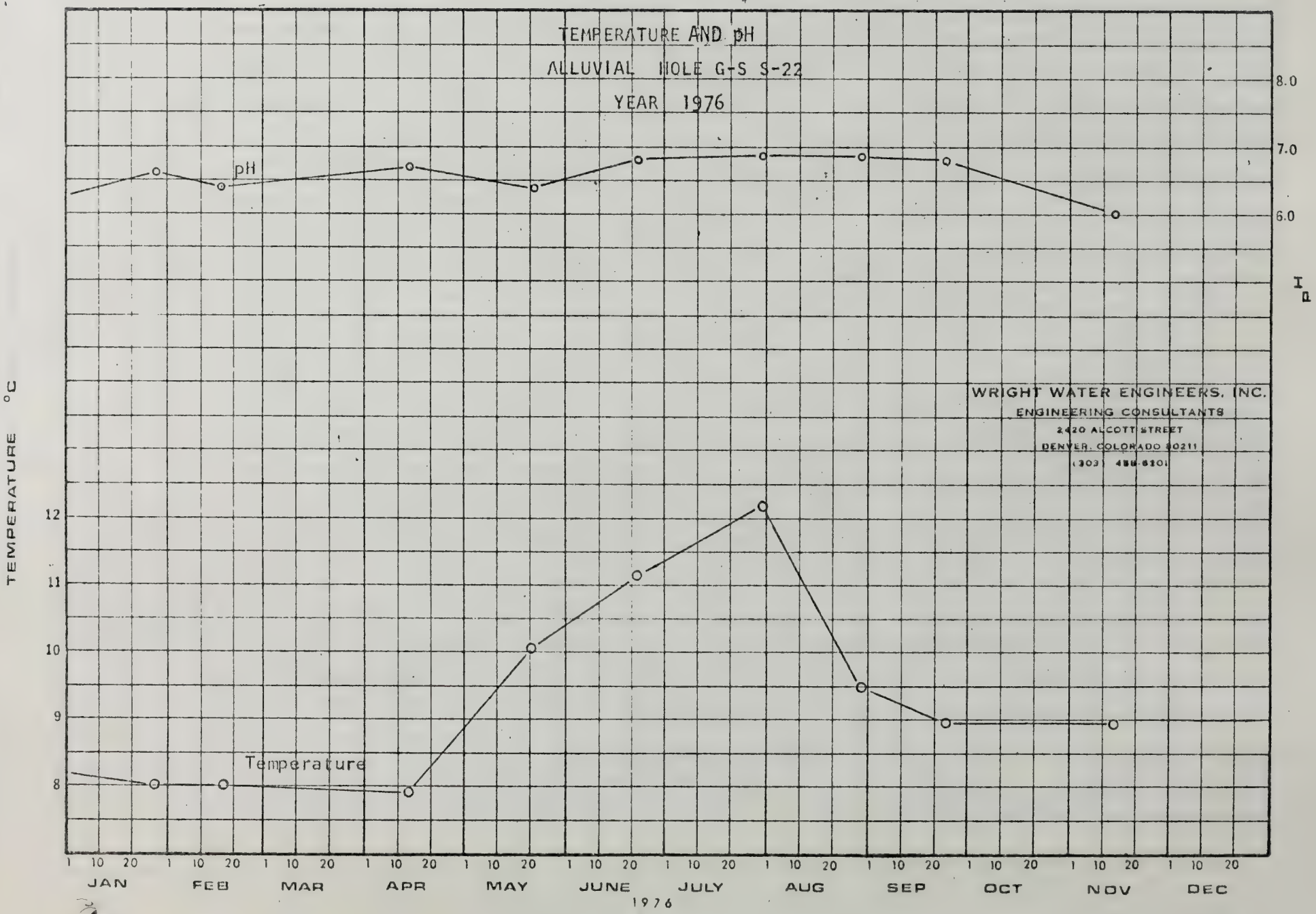

TEMPERATURE AND pH
ALLUVIAL HOLE G-S S-22
YEAR 1976
pH
Temperature
8.0
7.0
6.0
pH
12
11
10
9
8
TEMPERATURE °C
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6301
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-47

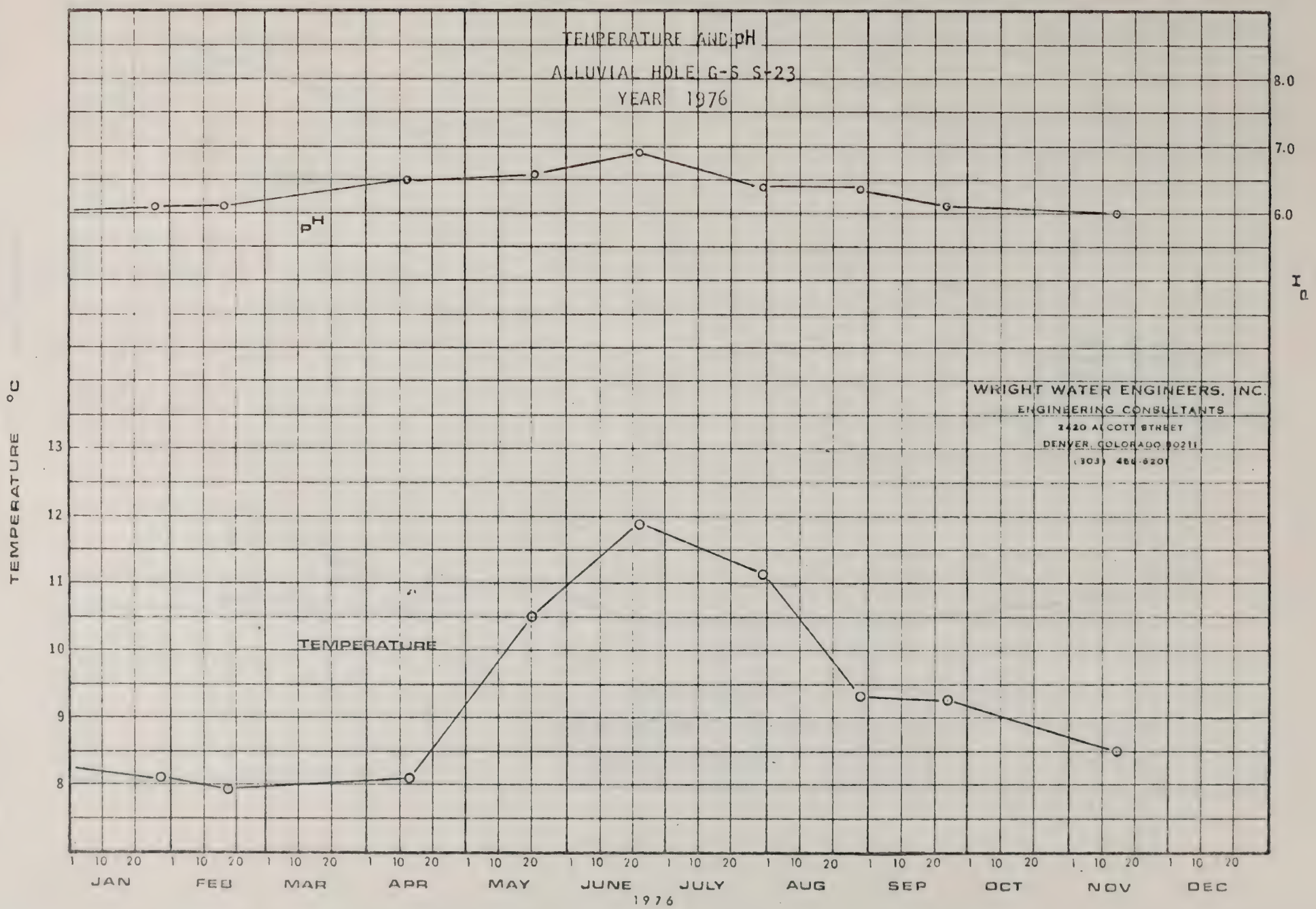

TEMPERATURE AND pH
ALLUVIAL HOLE G-6 S+23
YEAR 1976
pH
TEMPERATURE
TEMPERATURE °C
pH
8.0
7.0
6.0
13
12
11
10
9
8
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1,2-48

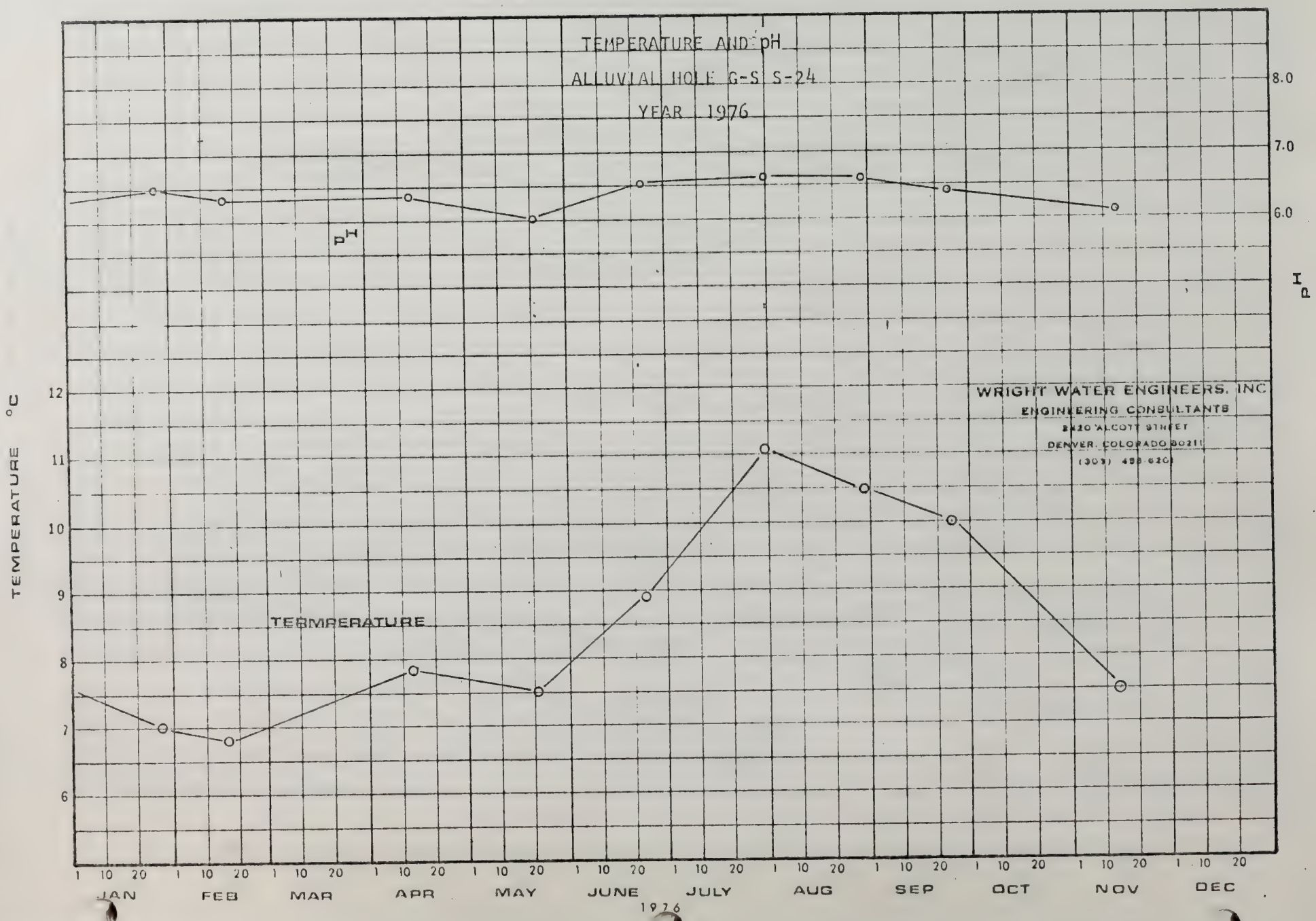

TEMPERATURE AND pH
ALLUVIAL HOLE G-S S-24
YEAR 1976
pH
TEMPERATURE
TEMPERATURE °C
pH
8.0
7.0
6.0
12
11
10
9
8
7
6
WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201
1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20
JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC
1976

Figure 1.2-49

1.2.4 DEEP AQUIFER DRILLING PROGRAM

The Deep Aquifer Drilling Program has been previously described in RBOSP Progress Reports 2 and 4, Hydrologic Program. A summary of the drilling program is reported in RBOSP Progress Report 5.

1.2.5 DEEP AQUIFER COMPLETION PROGRAM

The Deep Aquifer Completion Program is reported in RBOSP Progress Reports 2 and 4, Hydrologic Program Interpretive Text.

1.2.6 UPPER AND LOWER AQUIFER PUMPING TESTS

Pumping Test Data can be found in RBOSP Progress Report 3, Interpretive and Raw Data Texts. Detailed interpretation is contained in RBOSP Progress Report 4, Interpretive Text, with basic data found in the associated Raw Data Volume.

1.2.7 DEEP AQUIFER MONITORING

The deep aquifer monitoring program started in December 1974. The program includes the measurement of water levels and gathering of water quality data. Water samples were collected monthly from March through August 1975. Thereafter, water samples are collected semiannually. The latest samples were collected in November 1976. Shown on Figure 1.2-50 are the locations of the monitor holes.

As per RBOSP Approved Exploratory Plan, the present monitoring program consists of measuring static water levels on a monthly basis. Water level data from October 1975, through November 1976, are included in the Raw Data Volume of this report. Table 1.2-17 is a collection schedule for the deep aquifer.

Water quality analyses of the samples collected in November 1976, have been made and are included in the Raw Data Volume of this report. Table 1.2-18 and 1.2-19 are summaries of wet chemical analysis and spectrographic analysis respectively.

Water quality analyses of these samples show that the water quality of the deep aquifer has remained stable compared to previous analyses. Many of the analyses continue to show recovery from the commingling of water through open holes prior to completion. Anomalous increases in sodium and chloride were noted in the upper aquifer at AM-2A and high total dissolved solids in the lower aquifer. A lower total dissolved solids value was noted in both the upper and lower aquifers at CE 709 while a higher than expected value of total dissolved solids was noted at G-S M-2 in the lower aquifer. A detailed analysis of water quality for the deep aquifers will be reported in the two year Baseline Report. Water quality results for each deep aquifer monitor can be found in the Raw Data Volume of this report.

The measured water levels for the upper aquifer in and around Tract C-a were variable. The greatest change, a rise of 5 feet, occurred in the upper aquifer in the area of core hole CE 709; however, the water level measurement of 28 August is suspect. This measurement does not correspond with the rising water level trend indicated by the measurements taken before and after that date. A rise occurred generally in the northern half of the tract with the exception of CE 702 where a decline of 0.64 feet occurred. The southern half of the tract generally had a water level decline, the major decline being at G-S 13 (down 5.68 feet) and AM 3 (down 4.75 feet). An exception to the decline in the southern half of the tract is a narrow band along the eastern border and down along the southeastern border, which had little change in the measured water level.

Water levels, as indicated by the measurements, are generally declining in the lower aquifer with changes of less than 2 feet. An exception to this is in the area of G-S 12 and G-S 13. G-S 12 had a decline of 2.7 feet. G-S 13 had a decline of 5.5 feet. The overall trend was a decline of approximately 1.5 feet.

TABLE 1.2-17

DATA COLLECTION SCHEDULE FOR DEEP AQUIFER

Monthly

Water Levels Measure

Semi Annually

Water Sample Analyzed For:

Alkalinity	COD	Na
Aluminium	Dissolved Solids	Sr
Ammonia	Ge	Sulfate
Arsenic	Ga	Sulfide
Ba	Fluoride	Ti
Be	Iron	V
Bi	Lead	Zr
Bicarbonate	Li	Zn
Br	Mg	Color
B	Mn	Odor
Dissolved Organic Carbon	Hg	pH
	Mo	Temperature
Calcium	Ni	Conductance
Carbonate	Nitrate plus Nitrite	
Cd	Phenols	
Chloride	Dissolved Phosphate	
Cr	Potassium	
Cu	Se	
Cyanide	Silica	

Radioactivity

Gross Alpha
If >4 pci/l
then
RA 226,
Natural Uranium

Gross Beta
If >100 pci/l
then
SR^{90}
Ce^{137}

TABLE 1.2-18

SUMMARY OF WET CHEMICAL ANALYSIS MONITORING PROGRAM
UPPER AND LOWER AQUIFER
TRACT C-a AND VICINITY
Values in mg/l
MARCH 1975 to NOVEMBER 1976

	Lower Aquifer					Upper Aquifer				
Item	Low	High	Average	# Items Averaged	Std. Dev.	Low	High	Average	# Items Averaged	Std. Dev.
Alkalinity	52.000	4500.000	975.927	123	788.577	70.000	2390.000	530.878	168	443.722
Aluminum	- 0.010	1.000	0.300	33	0.297	- 0.010	1.000	0.142	41	0.214
Ammonia	0.020	9.600	0.724	101	1.012	- 0.100	1.800	0.426	142	0.352
Arsenic	- 0.010	0.030	0.000	123	0.003	- 0.010	0.050	0.001	167	0.006
Barium	- 0.100	1.000	0.012	81	0.111	- 0.100	- 1.000	0.000	125	0.000
Bicarbonate	260.000	3310.000	1108.374	123	815.660	85.000	2760.000	615.553	168	494.654
Boron	- 0.010	9.400	1.301	123	1.530	- 0.010	4.800	0.622	168	0.939
Bromide	- 0.020	0.400	0.018	38	0.068	- 0.020	0.500	0.062	43	0.121
Chemical Oxygen Demand	- 0.100	92.000	22.941	44	18.900	- 0.100	400.000	48.233	45	75.591
Cadmium	- 0.001	0.030	0.002	123	0.006	- 0.001	0.001	0.002	168	0.009
Calcium	0.800	98.000	16.078	123	18.451	- 0.010	260.000	60.010	168	54.976
Carbonate	- 0.100	710.000	90.715	123	113.104	- 0.100	335.000	26.388	168	48.740
Chloride	- 0.100	185.000	32.997	123	33.331	- 0.100	87.000	17.857	168	16.393
Chromium	- 0.010	- 0.050	0.004	121	0.009	- 0.010	0.050	0.003	167	0.010
Conductivity (umhos/cm)	845.000	6000.000	2019.98	122	1172.06	810.000	4200.000	1591.623	167	741.923
Copper	- 0.010	0.300	0.018	123	0.050	- 0.010	0.800	0.021	168	0.098
Cyanide	- 0.010	0.080	0.002	122	0.009	- 0.010	0.100	0.002	167	0.012
Dissolved Oxygen Demand	3.000	73.000	12.143	92	8.656	1.000	50.000	10.133	129	7.208
Dissolved Solids	540.000	3640.000	1419.715	123	799.393	530.000	2850.000	1129.470	168	506.343
Fluoride	0.200	85.000	15.942	123	15.700	0.100	60.000	2.906	168	8.479
Gross Alpha (pci/l)	0.100	30.000	5.741	71	6.080	0.200	29.000	5.334	97	5.144
Gross Beta (pci/l)	3.000	830.000	50.583	36	134.942	2.000	73.000	22.464	28	18.558
Hardness (total)	20.000	690.000	165.861	101	153.023	32.000	1110.000	392.648	145	234.534
Iron	- 0.050	16.200	2.720	123	3.625	- 0.005	36.000	4.970	168	5.335
Lead	0.003	26.000	0.822	123	2.977	0.002	3.800	0.352	168	0.534
Lithium	- 0.100	1.000	0.109	44	0.197	- 0.100	1.000	0.122	45	0.280
Magnesium	1.900	140.000	30.581	123	28.439	3.500	200.000	59.421	168	37.088
Manganese	- 0.050	0.800	0.086	123	0.118	- 0.010	1.700	0.187	168	0.211
Mercury	- 0.001	- 0.010	0.000	123	0.000	- 0.001	0.045	0.000	168	0.004
Nickel	- 0.001	0.100	0.025	81	0.018	- 0.001	0.200	0.026	125	0.027
Nitrate	- 0.100	2.000	0.329	102	0.391	- 0.010	7.000	0.581	146	1.110
Nitrate -N	- 0.020	0.600	0.149	43	0.198	- 0.020	0.600	0.157	44	0.192
pH	6.000	11.000	7.27	120	0.675	6.000	8.800	6.816	165	0.463
Phenols	- 0.001	1.000	0.034	44	0.152	- 0.001	0.174	0.010	45	0.029
Phosphate	- 0.100	1.000	0.041	123	0.138	- 0.010	1.000	0.018	168	0.093
Potassium	- 1.000	19.000	4.252	44	4.193	- 1.000	11.000	2.922	45	2.459
Selenium	- 0.010	- 0.100	0.000	123	0.000	- 0.001	- 0.010	0.000	168	0.000
Silicon Dioxide	- 0.100	60.000	10.072	123	8.323	- 0.100	58.000	25.622	168	15.643
Silver	- 0.001	0.100	0.002	79	0.011	- 0.001	0.100	0.006	123	0.019
Sodium	155.000	1560.000	530.122	123	381.347	32.000	1170.000	273.167	168	221.695
Sulfate	- 4.000	740.000	163.610	123	151.638	- 4.000	900.000	357.024	168	185.697
Sulfide	- 0.010	6.500	1.036	44	1.212	0.030	49.000	3.301	46	9.714
Zinc	0.020	68.000	1.163	123	6.275	- 0.010	15.000	0.679	168	1.494

(1) Less than detectable limit given.

TABLE 1.2-19

SUMMARY OF SPECTROGRAPHIC ANALYSIS MONITORING PROGRAM
UPPER AND LOWER AQUIFER
TRACT C-a and VICINITY
Values in mg/l
MARCH 1975 to AUGUST 1976

	Lower Aquifer					Upper Aquifer				
Item	Low	High	Average	# Items Avg'd.	Std. Dev.	Low	High	Average	# Items Avg'd.	Std. Dev.
Aluminum	0.001	1.000	0.065	101	0.122	0.001	1.000	0.114	146	0.189
Antimony	0.200	0.200	0.200	1	0.000	---	---	---	0	---
Arsenic	---	---	---	0	---	---	---	---	0	---
Barium	0.001	0.100	0.003	14	0.004	0.001	0.010	0.003	23	0.004
Beryllium	---	---	---	0	---	---	---	---	0	---
Bismuth	---	---	---	0	---	---	---	---	0	---
Boron	0.100	0.500	0.359	99	0.165	0.100	2.000	0.366	146	0.235
Cadmium	Major	Major		0		Major	Major		0	
Calcium	0.100	Major	5.837	24	3.891	1.000	Major	7.882	17	3.533
Cerium	---	---	---	0	---	---	---	---	0	---
Cesium	---	---	---	0	---	---	---	---	0	---
Chromium	---	---	---		---	---	---	---	0	---
Cobalt	---	---	---	0	---	---	---	---	0	---
Columbium	---	---	---	0	---	---	---	---	0	---
Copper	0.001	0.020	0.005	92	0.005	0.001	0.020	0.006	136	0.005
Dysprosium	---	---	---	0	---	---	---	---	0	---
Erbium	---	---	---	0	---	---	---	---	0	---
Europium	---	---	---	0	---	---	---	---	0	---
Gadolinium	---	---	---	0	---	---	---	---	0	---
Gallium	---	---	---	0	---	---	---	---	0	---
Germanium	---	---	---	0	---	---	---	---	0	---
Gold	---	---	---	0	---	---	---	---	0	---
Hafnium	---	---	---	0	---	---	---	---	0	---
Holmium	---	---	---	0	---	---	---	---	0	---
Indium	---	---	---	0	---	---	---	---	0	---
Iridium	---	---	---	0	---	---	---	---	0	---
Iron	0.010	0.500	0.048	99	0.087	0.010	2.000	0.118	145	0.251
Lanthanum	---	---	---	0	---	---	---	---	0	---
Lead	---	0.500	0.032	30	0.096	0.001	0.200	0.020	41	0.044
Lithium	0.001	0.100	0.011	74	0.020	0.001	0.500	0.014	100	0.053
Lutetium	0.100	0.010	0.010	1	0.000	0.001	0.010	0.005	2	0.006
Magnesium	0.100	Major	3.509	23	3.471	0.100	Major	6.006	78	4.290
Manganese	0.001	0.100	0.013	83	0.025	0.001	0.200	0.020	128	0.036
Mercury	---	---	---	0	---	---	---	---	0	---
Molybdenum	0.001	0.100	0.010	52	0.018	0.001	0.500	0.017	82	0.077
Neodymium	---	---	---	0	0.000	---	---	---	0	---
Nickel	0.001	0.001	0.001	1	0.000	0.001	0.001	0.001	2	0.000
Osmium	---	---	---	0	---	---	---	---	0	---
Palladium	---	---	---	0	---	---	---	---	0	---
Platinum	---	---	---	0	---	---	---	---	0	---
Potassium	0.010	5.000	0.873	98	1.083	0.010	5.000	0.903	143	1.116
Praseodymium	---	---	---	0	---	---	---	---	0	---
Radium (pci/l)	0.090	0.900	0.387	23	0.257	0.100	0.800	0.200	26	0.160
Rhenium	---	---	---	0	---	---	---	---	0	---
Rhodium	---	---	---	0	---	---	---	---	0	---
Rubidium	---	---	---	0	---	---	---	---	0	---
Ruthenium	---	---	---	0	---	---	---	---	0	---
Samarium	---	---	---	0	---	---	---	---	0	---
Scandium	---	---	---	0	---	---	---	---	0	---
Selenium	---	---	---	0	---	---	---	---	0	---
Silicon	<0.500	10.000	4.317	101	2.121	1.000	20.000	5.082	146	3.739
Silver	---	0.001	0.001	7	0.000	---	0.001	0.001	13	0.000
Sodium	0.100	Major	7.490	92	2.716	2.000	Major	7.385	104	2.897
Strontium	0.001	1.000	0.096	92	0.102	0.001	1.000	0.108	136	0.094
Tantalum	---	---	---	0	---	---	---	---	0	---
Terbium	---	---	---	0	---	---	---	---	0	---
Thallium	---	---	---	0	---	---	---	---	0	---
Thorium	---	---	---	0	---	---	---	---	0	---
Thulium	---	---	---	0	---	---	---	---	0	---
Tin	---	0.001	0.001	2	0.001	0.001	0.001	0.001	1	0.000
Titanium	0.001	0.010	0.000	41	0.004	0.001	0.020	0.004	79	0.004
Tungsten	---	---	---	0	---	---	---	---	0	---
Uranium	<1.500	<1.500		1	0.000	---	---	---	0	---
Vanadium	---	---	---	0	---	---	0.001	0.001	1	0.000
Ytterbium	---	---	---	0	---	---	---	---	0	---
Yttrium	---	---	---	0	---	---	---	---	0	---
Zinc	0.001	0.200	0.012	22	0.110	0.001	0.200	0.013	44	0.036
Zirconium	---	---	---	0	---	---	---	---	0	---

--- Less than minimum detectable amount
Major - Concentration too large to quantify (see wet chemical analysis)

TABLE 1.1-20
UPPER AQUIFER

WATER LEVEL

October, 1975 thru August, 1976

Below Ground Surface (ft.)

	9 Oct.	20 Nov.	12 Dec.	28 Jan.	17 Feb.	29 Mar.	14 April	21 May	23 June	30 July	28 Aug.
AM 2A	389.45	387.63	386.41	385.17	384.34	383.19	382.50	381.85	--	379.40	379.09
AM 3	33.57	33.45	33.11	33.23	33.04	32.79	31.60	30.04	28.72	29.17	30.06
CE 702	52.40	52.30	52.39	52.64	52.65	52.80	52.66	53.02	54.50	53.38	53.70
CE 707	259.79	258.76	258.11	257.25	256.64	242.22	250.32	250.60	250.97	252.03	252.00
CE 708	48.87	50.60	49.86	51.78	51.80	51.30	47.72	44.81	46.43	44.30	46.91
CE 709	39.84	37.02	36.14	35.90	35.69	35.50	34.88	35.00	34.48	33.90	38.84
G-S 1	244.68	245.27	245.59	246.19	246.53	246.28	244.53	243.26	242.57	241.92	242.10
G-S 2-3	103.49	102.75	102.35	102.25	101.97	100.87	100.28	99.86	99.26	99.06	99.26
G-S 4-5	75.05	74.77	74.29	74.36	74.01	73.48	72.98	72.86	73.33	72.42	72.47
G-S 6	55.62	55.54	55.42	55.50	55.45	55.27	54.95	55.22	55.10	55.20	55.61
G-S 9	311.43	312.69	316.33	319.29	319.95	321.42	320.94	317.03	316.45	317.23	319.63
G-S 10	340.35	340.11	--	339.75	339.60	339.36	339.14	339.48	339.50	339.37	339.62
G-S 11	460.35	459.67	459.00	458.76	458.40	457.72	456.95	456.42	455.46	454.99	455.35
G-S 12	388.30	387.60	386.97	386.55	386.24	385.41	384.67	382.79	382.83	381.86	382.91
G-S 13	382.62	382.19	381.68	381.72	381.45	381.04	380.97	380.41	380.11	380.12	378.47
G-S 15	274.73			273.56	273.41	272.99	272.83	272.69	274.76	272.58	272.49
G-S M-1	620.64	621.13	--	619.10	618.77	618.71	625.57	619.31	619.40	619.95	620.26
G-S M-2	231.22	230.68	229.75	228.94	228.23	225.76	225.39	225.36	224.01	221.28	223.13
G-S M-3	21.59	21.96	20.32	19.16	19.21	18.57	17.50	17.72	18.75	18.58	18.46
G-S M-4	491.80	491.95	491.56	492.04	492.08	492.25	--	492.77	492.94	493.26	491.60
G-S M-5	235.73	235.81	235.24	235.70	235.64	235.51	235.38	235.75	235.80	235.94	235.90
TO-1	21.80	20.65	20.41	20.95	20.83	20.53	20.13	22.35	22.46	22.30	22.73
TO-2	113.36	113.36	112.96	112.93	112.73	112.57	112.18	113.81	113.70	111.32	111.44

-- Water levels not collected due to poor weather conditions making access to hole difficult or because problems with monitoring hole and equipment.

TABLE 1.2-21

UPPER AQUIFER

WATER LEVEL

October 1976 thru November 1976

	21 Oct.	14 Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
AM 2A	378.27	378.20										
AM 3	33.15	34.81										
CE 702	54.19	54.34										
CE 707	251.90	251.68										
CE 708	48.59	49.39										
CE 709	33.88	33.71										
G-S 1	243.26	243.92										
G-S 2-3	98.23	98.06										
G-S 4-5	72.39	73.59										
G-S 6	56.02	54.14										
G-S 8												
G-S 9	318.49	319.64										
G-S 10	339.53	339.40										
G-S 11	455.91	457.02										
G-S 12	383.58	384.79										
G-S 13	386.06	384.15										
G-S 15	272.26	272.20										
G-S M-1	620.96	622.15										
G-S M-2	222.65	221.98										
G-S M-3	17.96	17.85										
G-S M-4	493.62	493.84										
TO-1	23.54	23.64										
TO-2	110.85	111.42										

TABLE 1.2-22

LOWER AQUIFER

WATER LEVEL

October, 1975 thru August, 1976

Below Ground Surface (ft)

	9 Oct.	20 Nov.	12 Dec.	28 Jan.	17 Feb.	29 Mar.	14 April	21 May	23 June	30 July	28 Aug.
AM 2A	636.67	637.70	638.03	639.71	640.11	641.15	641.63	643.56	--	645.47	645.51
AM 3	310.40	311.27	311.56	313.34	313.73	314.65	315.31	316.90	317.67	318.80	319.50
CE 702	40.48	41.21	41.25	43.00	43.41	44.21	44.64	45.81	48.50	47.30	47.97
CE 707	567.51	568.70	569.21	570.67	571.04	572.19	572.53	--	573.00	573.81	574.78
CE 708	297.88	298.97	299.27	300.84	301.22	302.97	303.06	303.83	304.59	306.74	307.52
CE 709	154.31	155.55	154.92	157.62	158.63	158.87	159.60	160.82	160.61	162.63	163.23
G-S 1	602.65	602.43	602.13	602.13	601.70	601.64	601.58	601.91	601.76	601.67	602.36
G-S 2-3	254.92	255.98	256.61	258.03	258.32	259.43	259.81	261.05	261.79	262.79	263.66
G-S 4-5	98.31	99.55	100.09	100.57	101.95	102.89	103.40	104.46	105.12	--	105.74
G-S 6	44.06	45.88	46.26	47.72	48.12	49.01	49.45	50.65	51.29	52.41	52.89
G-S 9	513.25	514.31	514.68	516.10	516.22	517.19	517.96	517.56	518.14	518.51	519.65
G-S 10	389.69	390.81	--	392.76	393.06	394.01	394.57	396.13	396.89	398.04	398.71
G-S 11	721.76	723.02	723.36	725.51	725.53	726.65	727.18	727.63	728.46	729.60	730.46
G-S 12	649.79	649.76	650.08	651.97	652.30	653.36	653.92	655.54	656.45	659.06	656.86
G-S 13	573.82	574.98	575.36	577.08	577.34	578.39	578.96	580.40	581.58	582.80	579.40
G-S 15	363.99	365.27	365.64	367.28	367.64	368.71	369.24	370.79	371.79	372.69	373.41
G-S M-1	822.20	824.61	--	824.87	825.18	825.84	826.59	829.59	830.34	831.35	831.79
G-S M-2	354.96	355.03	354.44	355.14	354.69	354.60	354.73	353.64	355.46	355.31	355.76
G-S M-3	139.89	140.67	139.25	140.34	139.69	139.64	145.02	140.27	140.18	140.67	140.97
G-S M-4	562.50	563.58	563.95	565.32	565.65	566.55	--	--	--	571.65	568.23
TO-1	127.21	128.40	128.77	130.41	130.81	131.78	132.31	133.54	134.56	135.78	136.28
TO-2	356.68	357.83	358.31	359.62	359.95	361.01	360.93	362.93	363.57	364.64	365.30

-- Water levels not collected due to poor weather conditions making access to hole difficult or because problems with monitoring hole and equipment.

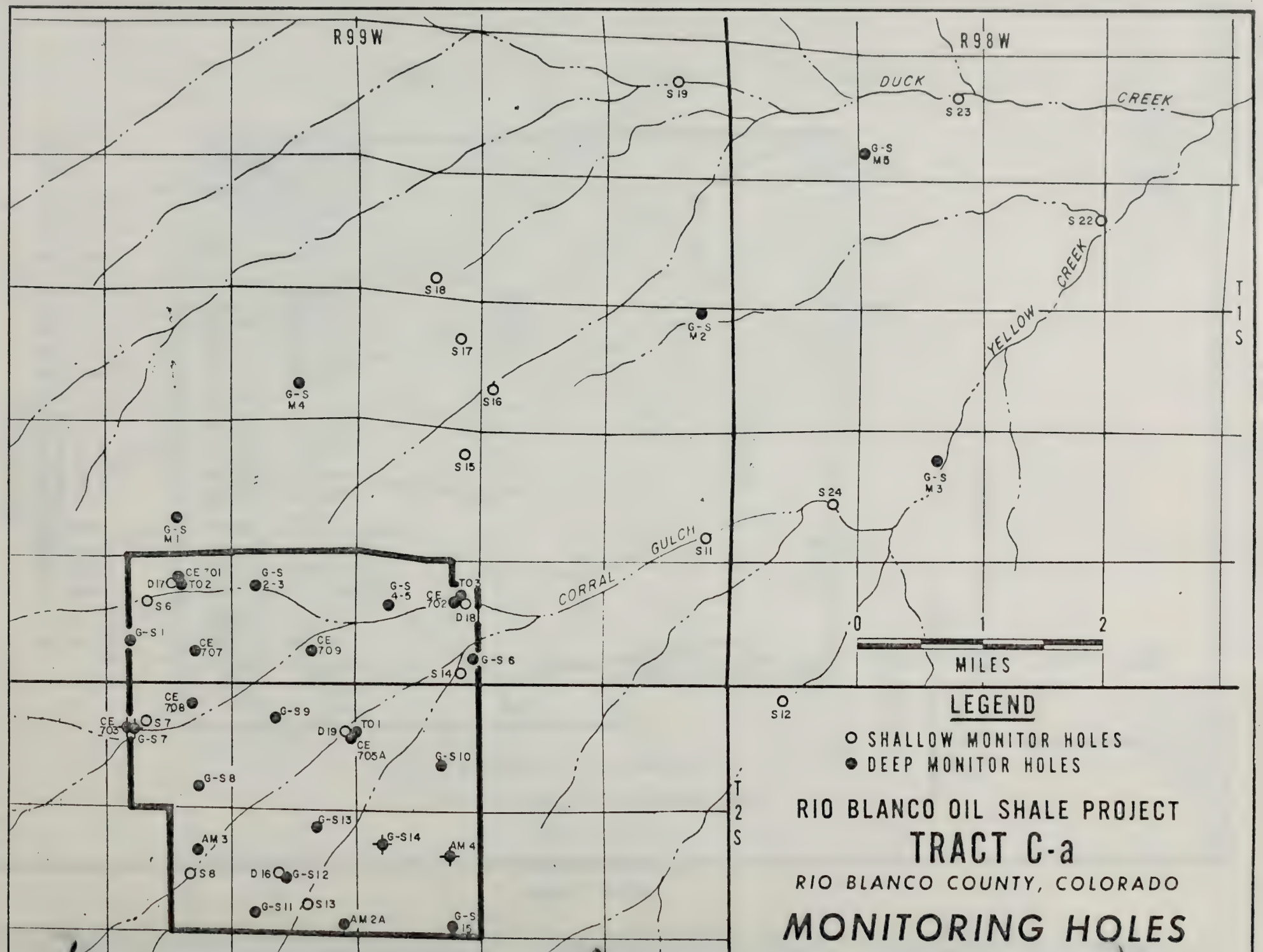

R99W
R98W
DUCK
CREEK
YELLOW
CREEK
CORRAL
GULCH
T1S
T2S
S19
S23
G-S M5
S22
S18
S17
S16
S15
G-S M2
G-S M4
G-S M3
S24
S11
G-S M1
CE 701
D17
TO2
S6
G-S 2-3
G-S 4-5
CE 702
TO3
D18
G-S1
CE 707
CE 709
G-S 6
S14
CE 708
CE 703
S7
G-S7
G-S9
D19
TO1
CE 705A
G-S10
G-S8
G-S13
G-S14
AM3
AM4
S8
D16
G-S12
G-S11
S13
AM2A
G-S 15
S12
0
1
2
MILES
LEGEND
SHALLOW MONITOR HOLES
DEEP MONITOR HOLES
RIO BLANCO OIL SHALE PROJECT
TRACT C-a
RIO BLANCO COUNTY, COLORADO
MONITORING HOLES

Figure 1.2-50

TABLE 1.2-23

LOWER AQUIFER

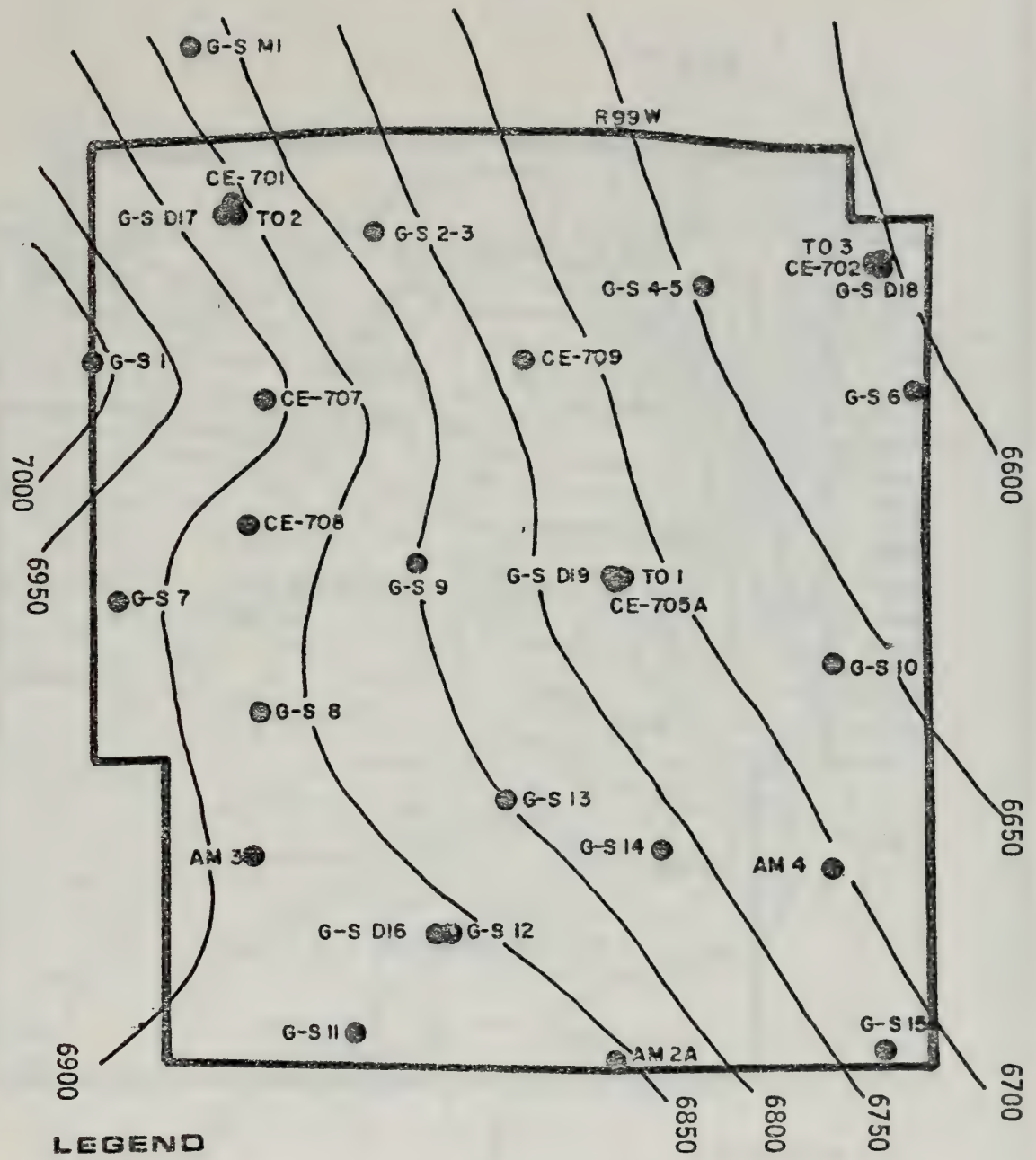
WATER LEVEL

October 1976 thru November 1976

Below Ground Surface (ft.)

	21 Oct.	14 Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
AM 2A	647.15	647.49										
AM 3	320.55	318.82										
CE 702	48.98	49.18										
CE 707	575.77	576.22										
CE 708	308.55	309.09										
CE 709	164.26	164.67										
G-S 1	601.94	602.02										
G-S 2-3	264.46	264.89										
G-S 4-5	107.84	105.19										
G-S 6	53.81	56.19										
G-S 8												
G-S 9	520.87	521.17										
G-S 10	399.71	396.97										
G-S 11	731.42	731.96										
G-S 12	659.25	659.62										
G-S 13	584.46	584.91										
G-S 15	374.34	374.81										
G-S M-1	832.65	834.60										
G-S M-2	355.52	353.85										
G-S M-3	141.45	143.07										
G-S M-4	568.79	569.50										
TO-1	137.28	137.61										
TO-2	366.39	366.86										

UPPER AQUIFER
PIEZOMETRIC LEVELS (ft.)
NOVEMBER 14, 1976



LEGEND

TRACT OUTLINE

DRILL HOLES

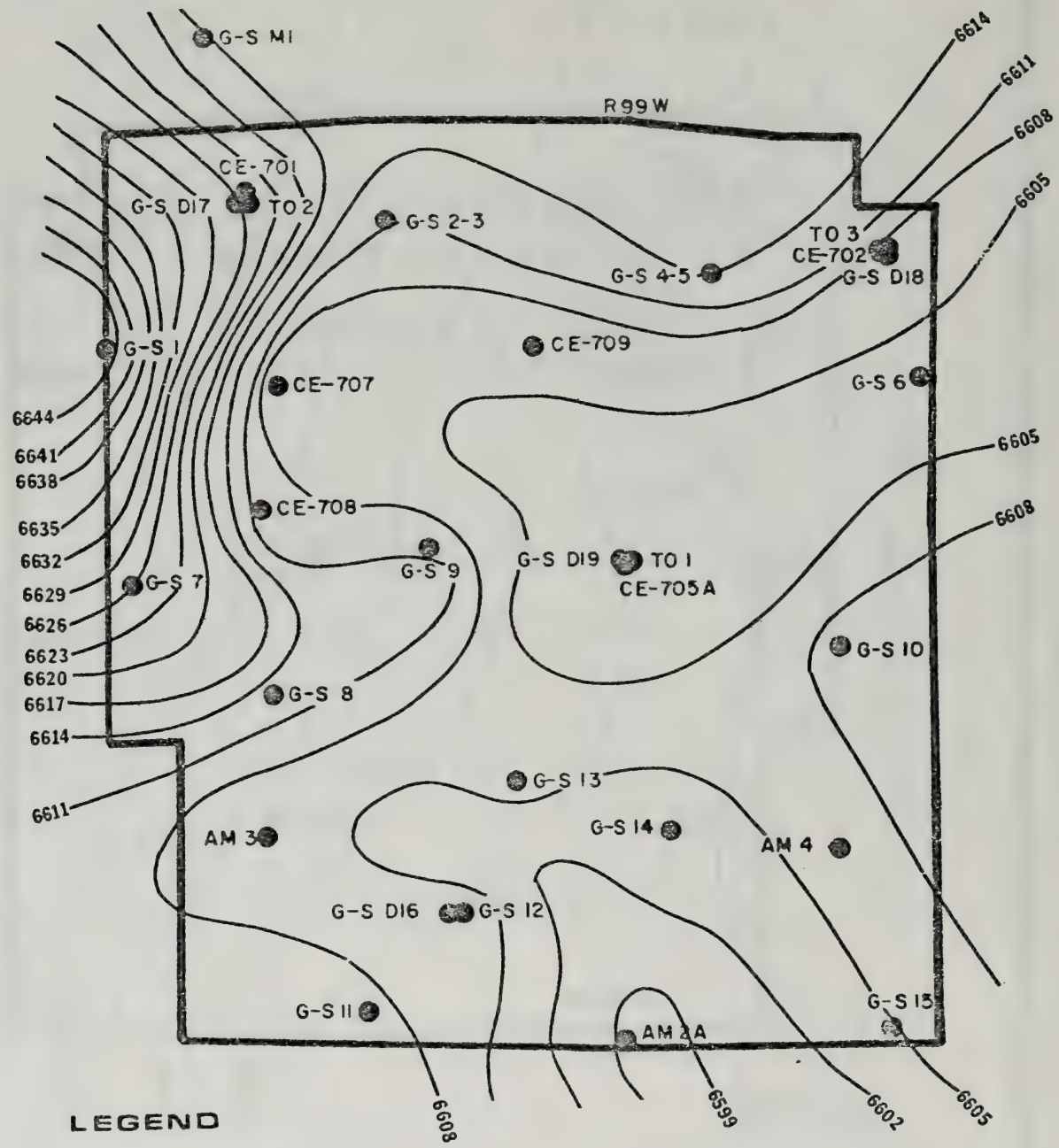
CONTOUR INTERVAL 50 FEET

SCALE: 1" = 3000'

WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-5201

Figure 1.2-51

LOWER AQUIFER
PIEZOMETRIC LEVELS
NOVEMBER 14, 1976



LEGEND

TRACT OUTLINE

DRILL HOLES

CONTOUR INTERVAL 3 FEET

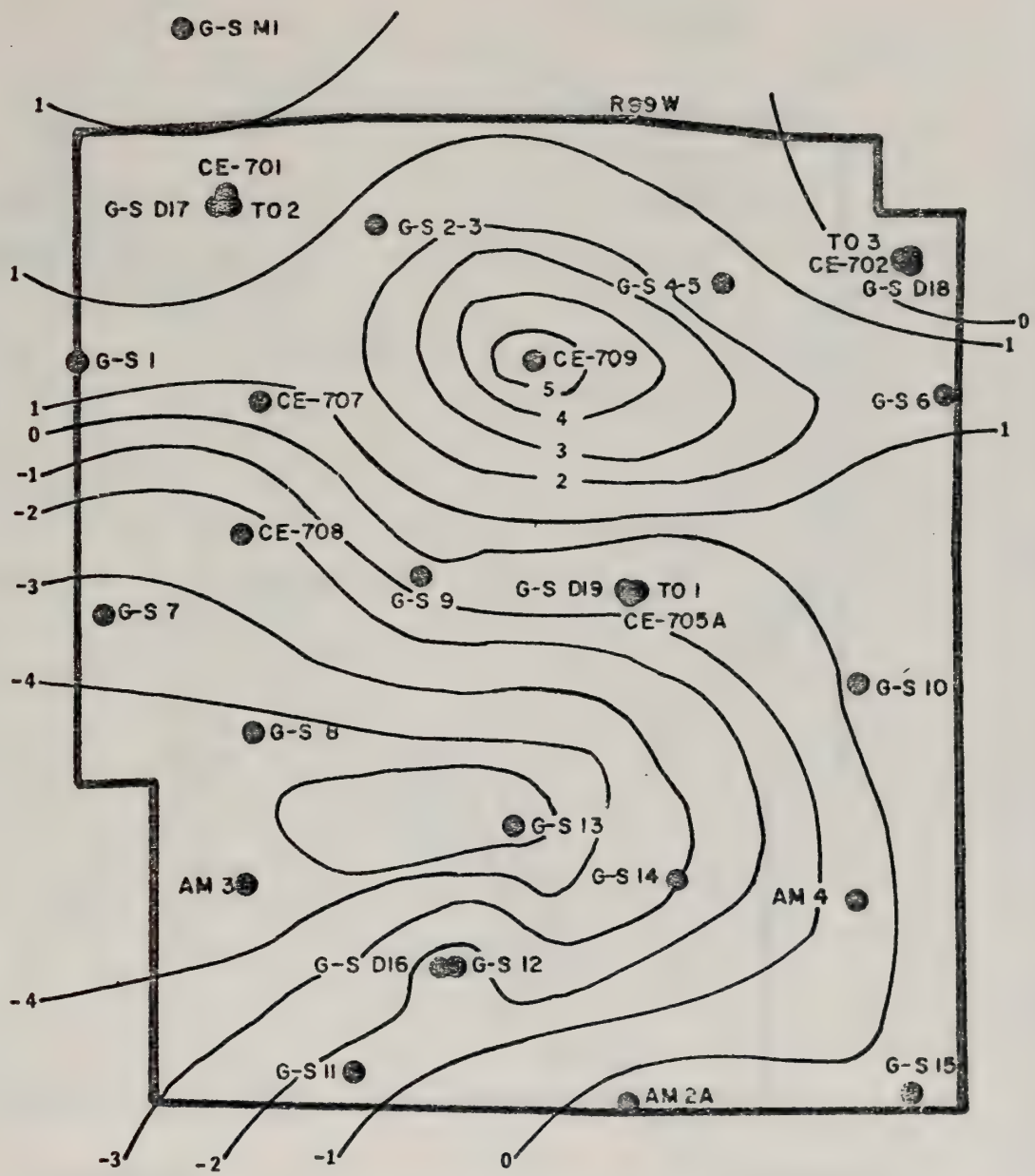
N

SCALE: 1" = 3000'

WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-6201

Figure 1.2-52

UPPER AQUIFER
CHANGE IN WATER LEVEL
AUGUST 27 - NOVEMBER 14, 1976



LEGEND

TRACT OUTLINE

DRILL HOLES

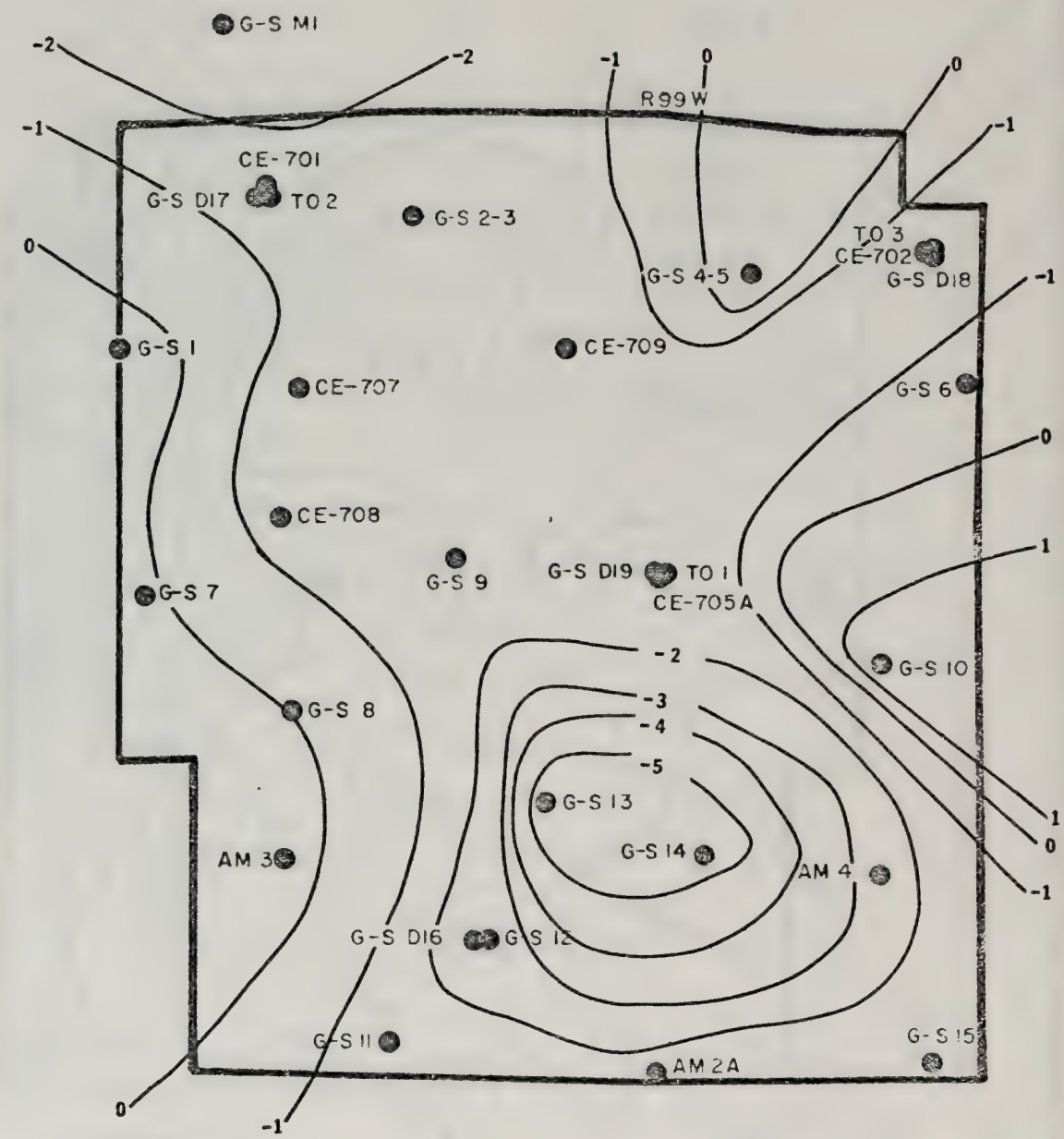
CONTOUR INTERVAL 1 FOOT

SCALE: 1" = 3000'

WRIGHT WATER ENGINEERS, INC
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-8301

Figure 1.2-53

LOWER AQUIFER
CHANGE IN WATER LEVELS
AUGUST 27 - NOVEMBER 14, 1976



LEGEND

TRACT OUTLINE

DRILL HOLES

CONTOUR INTERVAL 1 FEET

N

SCALE: 1" = 3000'

WRIGHT WATER ENGINEERS, INC.
ENGINEERING CONSULTANTS
2420 ALCOTT STREET
DENVER, COLORADO 80211
(303) 458-8101

Figure 1.2-54

1.2.8 HYDROLOGIC PROGRAM SUMMARY

The following is a summary of the hydrologic studies related to Tract C-a monitoring during the quarter from September through November 1976. The summary covers three main categories: surface water, alluvial aquifers, and deep aquifers.

1.2.8.1 SURFACE WATER

Of the eleven stream gaging stations, seven stations did not record measurable discharge. These seven stations are located on Dry Fork near west line Tract C-a, Box Elder Gulch near west line Tract C-a, Stake Springs Draw near the confluence with Corral Gulch, "Rinky Dink" Gulch near east line Tract C-a, upper Big Duck Creek north of 84 Mesa, lower Big Duck Creek north of 84 Mesa, and the tributary to Yellow Creek east of 84 Mesa. Continuous flow for the reporting period was measured at Corral Gulch near west line Tract C-a, Corral Gulch east of Tract C-a, Yellow Creek near White River, Colorado, and Corral Gulch south of 84 Mesa.

New chemical analyses have been reported for the stations: Corral Gulch near west line Tract C-a, Box Elder Gulch near west line Tract C-a, Corral Gulch south of 84 Mesa, and Yellow Creek near White River, Colorado. In general, Yellow Creek continues to show the highest concentrations of many constituents. Box Elder Gulch station near west line Tract C-a, generally has the lowest concentrations of the stations. Certain constituents show substantial expected variation within the reporting period for each station. These constituents are aluminum, ammonia, kjedahl nitrogen, ammonia nitrogen, organic carbon, and phosphate. Constituents that show fairly similar values over the five stations are arsenic, dissolved oxygen, fluoride, and lithium.

Mean conductivity is reported for five surface gaging stations. Mean conductivity reported for Corral Gulch near west line Tract C-a was generally stable with a mean value of 1,005 umhos/cm. Box Elder Gulch near west line Tract C-a had limited flow resulting in insufficient data for analysis. Mean conductivity at Corral Gulch east of Tract C-a ranged from 1,000 umhos to 1,400 umhos/cm for 01 August through 12 October and then dropped to a range of 800 to 700 umhos/cm. Mean conductivity for Corral Gulch south of 84 Mesa averages 1,760 umhos/cm for the reported period. Widely fluctuating values occurred at Yellow Creek near White River, Colorado averaging 4,050 umhos/cm.

Daily mean temperatures were collected for four of the perennial stream gaging stations: Corral Gulch near west line Tract C-a, Corral Gulch east of Tract C-a, Corral Gulch south of 84 Mesa, and Yellow Creek near White River, Colorado. The general mean temperature shows a seasonal cooling trend as temperatures drop from the mid-summer high temperatures.

Values for instantaneous boron and fluoride for stations: Box Elder Gulch near west line Tract C-a, Corral Gulch near west line Tract C-a, Corral Gulch east of Tract C-a, Corral Gulch south of 84 Mesa, and Yellow Creek near White River, Colorado, have remained relatively stable except for fluoride at the station on Yellow Creek near White River, Colorado. Fluoride levels at Yellow Creek have been steadily rising, reaching 3.0 mg/l in August. Boron levels at Yellow Creek were relatively stable ranging from 0.50 mg/l to 0.86 mg/l.

New recording-type precipitation data from near Cathedral Bluffs, Stake Springs Draw, and Yellow Creek indicate widespread rainfall events across the tract. Rainfall events occurred concurrently at all three recording-type precipitation gages six out of thirteen days that re-

ported precipitation; four of the remaining days precipitation occurred, two of the stations concurrently reported precipitation. Precipitation for all stations for days when rainfall occurred averaged 0.13 inches per day. Storage-type precipitation gages from Dry Fork Gulch, Box Elder Gulch, and Corral Gulch generally correlate with recording-type gages for relative amounts of precipitation over the same time period.

1.2.8.2 ALLUVIAL AQUIFER

The alluvial holes which encountered water were: G-S S-7, G-S S-8, G-S S-11, G-S S-12, G-S S-19, G-S S-22, G-S S-23, and G-S S-24.

During the quarter, the average water level declined in the alluvial holes by 0.91 feet. Alluvial holes G-S S-8 and G-S S-23 showed a downward trend over the quarter. G-S S-7 declined in September and rose in November. A rise in September and a decline in November occurred in alluvial holes G-S S-11 and G-S S-12. G-S S-19, since the August water level measurement, showed a rise in November. Alluvial hole G-S S-22 showed no relative change through the quarter.

Field measurements of conductivity showed an average decrease of 80 umhos/cm in alluvial holes G-S S-7, G-S S-11, G-S S-22, and G-S S-24 since the August sampling period. G-S S-8, G-S S-12, and G-S S-23 showed an average increase of 130 umhos/cm over the quarter. Alluvial hole G-S S-19 showed an increase of 820 umhos/cm for the sample collected in November over the previous sample collected in August. Temperature ranged from 6.0^{o} at alluvial hole G-S S-11 to $9.0^{o}C$ at G-S S-7. Over the quarter the temperatures were down in all alluvial wells.

Measurements of pH in the alluvial holes were between 6.0 and 6.8 in September. In November, the range dropped to between 6.0 and 6.4. Over the quarter, the pH dropped in all holes with the exception of G-S S-12 where the pH rose.

The water quality of the alluvial aquifers have remained relatively stable. Constituents showing major amounts are: bicarbonate, magnesium, silicon dioxide, sodium, total dissolved solids, alkalinity, and sulfate. Levels of calcium and magnesium were the only items which showed noticeable changes. Calcium levels were up and magnesium levels were down in alluvial holes G-S S-7, G-S S-8, and G-S S-24. Magnesium levels were up and calcium levels were down in G-S S-11, G-S S-12, G-S S-19, and G-S S-23. Magnesium and calcium levels remained stable in G-S S-22.

1.2.8.3 DEEP AQUIFER MONITORING

Water samples are collected semiannually from deep monitoring holes. The latest samples were collected in November 1976.

Water quality analysis of these samples show that the water quality of the deep aquifer has remained stable compared to previous analyses. Many of the analyses continue to show recovery from the commingling of water through open holes prior to completion. Anamolous increases in sodium and chloride were noted in the upper aquifer at AM-2A and higher total dissolved solids in the lower aquifer. A lower total dissolved solids value was noted in the upper aquifer at CE 709 while a higher than expected value of total dissolved solids was noted at G-S M-2 in the lower aquifer.

The measured water levels for the upper aquifer in and around Tract C-a were variable. The greatest change, a rise of 5 feet, occurred in the upper aquifer in the area of core hole CE 709, however, the water level measurement of 28 August is suspect. This measurement does not correspond with the rising water level trend indicated by the measurements taken before and after that date. A rise occurred generally in the northern half of the

tract with the exception of CE 702 where a decline of 0.64 feet occurred. The southern half of the tract generally had a water level decline, the major decline being at G-S 13 (down 5.68 feet) and AM 3 (down 4.75 feet). An exception to the decline in the southern half of the tract is a narrow band along the eastern border and down along the southeastern border, which had little change in the measured water level.

Water levels, as indicated by the measurements, are generally declining in the lower aquifer with changes of less than 2 feet. An exception to this is in the area of G-S 12 and G-S 13. G-S 12 had a decline of 2.7 feet. G-S 13 had a decline of 5.5 feet. The overall trend was a decline of approximately 1.5 feet.

RIO BLANCO OIL SHALE REPORT
PROGRESS REPORT 9

SEPTEMBER, OCTOBER, NOVEMBER, 1976

HYDROLOGIC PROGRAM
SECTION 1.2

RAW DATA

JANUARY 15, 1976

GULF OIL CORPORATION
and
STANDARD OIL COMPANY (INDIANA)

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SURFACE WATER DATA COLLECTION

SECTION 1.2.2

U.S.G.S. PRECIPITATION AND SURFACE WATER DATA

EXPLANATION - U.S.G.S. GAGE DATA

Recording Type Rain Gage Stations

Corral Gulch near Cathedral Bluffs Station
Stake Spring Draw Station
Yellow Creek near White River Station

Storage Type Rain Gage Stations

Dry Fork Gulch Station
Box Elder Bulch West of Tract C-a Station
Corral Gulch West of Tract C-a Station

Discharge, Water Year 1976

Dry Fork near West Line Tract C-a
Box Elder Gulch near West Line Tract C-a
Corral Gulch near West Line Tract C-a
Corral Gulch East of Tract C-a
Corral Gulch South of 84 Mesa
Yellow Creek near White River, Colorado
"Rinky Dink" Gulch near East Line Tract C-a
Stake Springs Draw near Confluence with Corral Gulch
Tributary to Yellow Creek East of 84 Mesa
Upper Big Duck Creek North of 84 Mesa
Lower Big Duck Creek North of 84 Mesa

Specific Conductance, Water Year 1976

Corral Gulch near West Line Tract C-a
Corral Gulch East of Tract C-a
Corral Gulch South of 84 Mesa
Yellow Creek near White River, Colorado

Continuous Mean Temperature, Water Year 1976

Corral Gulch near West Line Tract C-a
Corral Gulch East of Tract C-a
Corral Gulch South of 84 Mesa
Yellow Creek near White River, Colorado

Chemical Analysis, Water Year 1976

Box Elder Gulch near West Line Tract C-a
Corral Gulch near West Line Tract C-a
Corral Gulch East of Tract C-a
Corral Gulch South of 84 Mesa
Yellow Creek near White River, Colorado
"Rinky Dink" Gulch near East Line Tract C-a
Stake Springs Draw near Confluence with Corral Gulch
Tributary to Yellow Creek East of 84 Mesa
Upper Big Duck Creek North of 84 Mesa
Lower Big Duck Creek North of 84 Mesa

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... District .....

STATION: Yellow Creek YEAR: 76

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1			0.06									
2			0.73							0.13		
3								0.24		0.05		
4			0.19									
5	0.01		0.01	0.30								
6	0.14				0.06				0.08			
7					0.08							
8					0.07			0.05				
9		0.03										
10					0.06		0.05			0.04		
11			0.22		0.01			0.04				
12			0.01				0.10					
13				0.02		0.41						
14		0.08	0.01			0.11			0.07			
15		0.01	0.02						0.22			
16				0.05		0.09						
17		0.13		0.21			0.08	0.05				
18				0.10			0.10					
19		0.19		0.03	0.04							
20		0.08		0.02								
21					0.03				0.07			
22			0.01			0.21		0.05	0.05			
23			0.02		0.19				0.20			
24	0.06				0.05				0.11			
25	0.06		0.18	0.02			0.05					
26	0.02			0.19				0.23				
27			0.01	0.01								
28												
29												
30		X					0.20					
31		X		X		X	0.50					
Sum	0.29	0.52	1.47	0.95	0.59		1.08	0.66	.84	0.18		

OUT OF service

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... District .....

STATION: Corral Gulch or Cash Bluffs YEAR: 76

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.02							0.05				
2	0.03							0.10		0.40		
3												
4	0.03			0.19								
5	0.04	0.06										
6	0.02	0.21			0.12				0.22			
7					0.11							
8					0.28		0.05	0.09				
9					0.21							
10			0.02									
11			0.49			0.11		0.45	0.12			
12			0.03				0.03					
13						0.65						
14		0.27		0.16					0.18			
15		0.11										
16				0.14		0.25						
17		0.05		0.25		0.30	0.25	0.05				
18				0.38			0.35	0.01				
19		0.15										
20		0.52			0.08							
21					0.05				0.25			
22					0.03	0.43		0.30	0.05			
23				0.03	0.06				0.12			
24	0.11				?				0.28			
25	0.15		0.60	0.10	0.35		0.37		0.16			
26				0.57			0.44	0.13				
27									0.02			
28												
29												
30		X			0.05							
31		X		X			0.05					
Sum	0.40	1.37	1.14	1.82	—	1.74	2.04	1.09	1.40			

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... District .....

STATION: Stake Springs YEAR: 76

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1			0.12					0.01				
2			0.77							0.28		
3			0.03									
4			0.28									
5	0.01	0.07	0.05	0.15								
6	0.04	0.13			0.01				0.17			
7					0.12							
8					0.32			0.06				
9		0.01										
10		0.07	0.02		0.09			0.09				
11			0.04			0.04		0.04				
12			0.02	0.05			0.16					
13				0.01		0.47						
14			0.02	0.09		0.05			0.09			
15			0.02									
16		0.16		0.03		0.20						
17				0.16		0.23	0.20	0.05				
18				0.30			0.20					
19		0.30	0.02	0.02								
20		0.20			0.10							
21					0.01	0.07			0.03			
22						0.73		0.08	0.17			
23				0.04	0.11							
24	0.03				0.10				0.21			
25	0.05		0.24	0.02	0.07				0.10			
26				0.06			0.02	0.09	0.04			
27							0.01		0.01			
28												
29												
30					0.07							
31							0.38					
Sum	0.13	0.94	1.63	0.93	1.00	1.79	0.97	0.42	0.82			

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... District .....

STATION: DRY FORK GULCH YEAR: 1976

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2				0.26*								
3												
4								0.53				
5												
6							0.00					
7									0.37			
8						0.71				0.26		
9					0.44							
10												
11				0.74								
12												
13												
14												
15						1.03		0.69				
16												
17							0.88					
18												
19												
20												
21									0.71			
22										0.07		
23				0.47		0.28						
24					0.64							
25												
26												
27								0.22				
28												
29				DRY								
30												
31				X								
SUM												

* RAN IN BUCKET WHEN GAUGE STARTED FOR 1976

U.S. GOVERNMENT PRINTING OFFICE : 1965—O-763-759

9-230

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... District .....

STATION: BOX ELDER GULCH YEAR: 1976

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2				1.55*								
3												
4								0.67				
5												
6							0.16					
7						0.72			0.27	0.33		
8												
9												
10												
11					0.41							
12												
13				0.63								
14												
15						1.27						
16							0.57					
17												
18								0.55				
19									0.62			
20												
21												
22						0.29				0.08		
23												
24												
25				0.32	0.67							
26												
27												
28												
29												
30												
31												
SUM												

* RAIN IN BUCKET WHEN GAUGE STARTED FOR 1976

U.S. GOVERNMENT PRINTING OFFICE : 1965 -O-763-759

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... District .....

STATION: CORRAL GULCH BELOW WATER GL YEAR: 76

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2												
3												
4								0.37				
5												
6			0.38				0.00					
7		0.50				0.79			0.27	0.25		
8												
9												
10					0.12							
11				0.65								
12											0.01	
13												
14												
15			1.2"			0.82						
16								0.44				
17							0.71					
18												
19												
20												
21												
22									0.61	0.04		
23						0.12						
24					0.66							
25												
26												
27			0.2"	DRY								
28		0.34										
29												
30												
31												
Sum												

A Gage blown over by wind - data indicates snow that fell Oct 26 through Nov 4.

9-192-a. July 1937

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of DRY FORK ~~River~~ Creek

~~At~~ Near RANGELY, COLORADO for the Year Ending September 30, 1976.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

PRELIMINARY DATA SUBJECT TO

DRY FORK NR RANGELY COLO. 1976

File Number { Washington 09306 / District

Used rating table dated NO. 1 OCT. 1 - J. / NO 2 JUNE 26 - SE

Drainage Area 2.74 Square Miles. Water-Stage Recorder CONTINUOUS Ratio 1 : 6

Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ... and ... hundredths below and tenths above these limits.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1					a		a			0	S	.02
2										0		0
3										0		0
4										0		0
5										0		0
6	*									0		0
7										0		0
8							*		*	0		0
9							a			0		0
10										0		0
11										0		0
12									*	0		0
13							*			0		0
14			a							0		0
15										0		0
16										0		0
17										0		0
18										0	*	.04
19									*	0		0
20										0		0
21										0		0
22										0	S	0.15
23										0	S	.41
24										0	S	.60
25									*	0		0
26									S	.01	*	0
27										0		0
28									*	0		0
29										0		0
30			a						X	X		0
31			X	X	a				X	X	S	.32
Total		0		0		0		0		.01		1.54

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	S	0.30			*	0						
2	S	.21	*			0						
3	S	.04			*	0						
4		0				0						
5	*	0				0						
6		0				0			*			
7		0				0						
8		0				0						
9		0				0						
10		0				0						
11		0				0						
12		0				0			*			
13		0				0	*					
14		0			*	0						
15		0				0						
16		0				0						
17		0	*		S	.03						
18		0			*	0						
19	*	0				0						
20		0				0	*					
21		0			*	0						
22		0				0						
23		0				0						
24		0	*		*	0						
25		0				0						
26	*	0				0						
27		0				0						
28		0				0						
29		0				0						
30		0			*	0						
31	X	X			X	X					X	X
Total		0.59		0		.03		0		0		0

Day	Quarter	First	Second	Third	Fourth	Quarter	First	Second	Third	Fourth	Quarter	First	Second	Third	Fourth
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
Period Year 19															
															2.17
Mean Second-feet per square mile															.01
Run-off in inches															

S- DISCHARGE SUBDIVIDED. V- VARIABLE. SHIFT. DISCHARGE ESTIMATED FOR "a" - NO GAGE HEIGHT RECORD. "b" - ICE EFFECT

*- OBSERVATION OF NO FLOW.

a CLOCK STOPPED RANGE 0.79 - 0.81

a CLOCK STOPPED RANGE 0.79 - 0.81

a CLOCK STOP 0.78-1.03

NO FLOW

Year 1975

9-192-a. July 1937

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of BOX ELDER GULCH ~~River~~ ~~Creek~~

At / Near RANGELY, COLORADO for the Year Ending September 30, 1976

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

BOX ELDER GULCH
NR RANGELY, COLO.
1976

File Number { Washington 0930622 / District

Used rating table dated No. 2

Drainage Area ..... Square Miles. Water-Stage Recorder CONTINUOUS Ratio 1 : 6

Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ..... and ..... hundredths below and tenths above these limits.

Max. Disch. 3.4 Sec.-ft. at 10:30 on APR. 1 (G. H. 1.82 ft.) Max. G. H. 2.11 ft. on APR. 1
Min. Disch. 0 Sec.-ft. on 1 days (G. H. ..... ft.) Min. G. H. ..... ft.
Sec.-ft. per sq. mile ..... Runoff in inches .....
Cal. year 1975: Sec.-ft. 92.15; Runoff in inches 18.12

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January 1976 Gage height	January 1976 Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1										0	1.80	.04
2										0	a	.03
3										0		.01
4										0		0
5										0		0
6										0		0
7										0		0
8										0		0
9									a	0		0
10										0		0
11										0		.02
12		FLOW		FLOW		FLOW		FLOW		0	a	.10
13									a	.01	1.19	.08
14									1.11	.01	1.08	.06
15									1.13	.01	1.08	.06
16		NO		NO		NO		NO	1.11	.01	1.13	.10
17									1.10	.01	S	.14
18									a	0	S	.40
19										0	S	.02
20										0		0
21										0	S	0
22										0	S	.11
23										0	S	.08
24										0	S	.29
25									a	0		0
26									1.70	.02		0
27									1.78	.04		0
28									1.82	.06		0
29									1.79	.05		0
30									X	X		0
31									X	X	S	.14
Total		0		0		0		0		.22		1.70

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1				0							a	
2	S	.28		0	1.34	.25						
3	S	.12		0	1.35	.28						
4	S	.01		0	a	.24						
5		0		0	a	.19						
6		0		0	a	.12						
7		0	S	.12	a	.08						
8		0	1.23	.32	a	.05						
9		0	1.30	.50	S	.04						
10		0	1.25	.38	S	.04						
11		0	S	.06	S	.04						
12		0	1.35	.66	S	.06						
13		0	1.40	.82	S	.06						
14		0	1.37	.72	S	.07						
15		0	1.40	.79	S	.07						
16		0	1.44	.86	S	.07						
17		0	1.45	.82	S	.11						
18		0	1.46	.79	S	.03						
19		0	1.46	.72	S	.03						
20		0	1.45	.63	S	.02						
21		0	1.46	.66	S	.01						
22		0	1.45	.63	S	.04			a			
23		0	1.43	.56	S	.02						
24		0	1.41	.50	S	.04						
25		0	1.41	.50	S	.02						
26		0	1.39	.45		0						
27		0	1.37	.38	a	0			CLOCK STOPPAGE			
28		0	1.36	.32	a	0						
29		0	1.36	.32		0						
30		0	1.36	.32		0						
31	X	X	1.36	.32	X	X			a		X	X
Total		0.86		13.15		2.21		0		0		0

Mean ..... Second feet per square mile.

Runoff in inches .....

Quarter: First / Second / Third / Fourth — Computed / Checked

Quarter: First / Second / Third / Fourth — Disch. equal / Disch. checked

Quarter: First / Second / Third / Fourth — G. H. equal / G. H. checked

Remarks

July 1917

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of CORRAL GULCH BELOW WATER GULCH ~~River~~ ~~Creek~~

Near RANGELY, COLORADO for the Year Ending September 30, 1976

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

CORRAL GL.
BELOW WATER GL.
NR. RANGELY, CO
1976

File Number { Washington 0930 / District ...

Used rating table dated No 3

Drainage Area 8 Square Miles. Water-Stage Recorder CONTINUOUS Ratio 1 : 6

Gage Read to ... Once / Twice a Day by ...

Gage heights used to half tenths between ... and hundredths below and tenths above these limits.

Max. Disch. 3.0 Sec-ft at 1900 on NOV. 1 (G. H. 1.23 ft.) Max. G. H. ... ft. at ... on ...
Min. Disch. No Flow Sec-ft on 1/1/1, 10/15 (G. H. ... ft.) Min. G. H. ... ft. on ...

"a" - Discharge estimated for gage height shown. "s" - Subdivided Nov.
* - Discharge estimated because of ice effect.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	1.21	.38	22	.32	a	.03	a	.03				0
2	1.21	.38	120	.32	WELL FROZEN	.04	CLOCK STOPPED	.03				0
3	121	.38	120	.32		.04		.03			*	0
4	1.21	.38	120	.33		.04		.03				0
5	121	.38	120	.34	a	.05		.03				0
6	121	.38	20	.33	1.31	b .05		.02				0
7	121	.35	122	.32	1.30	.05		.02				0
8	122	.41	120	.33	1.28	.06		.02				0
9	123	.44	122	.34	125	.06	a	.01	*		*	0
10	1.23	.44	123	.36	1.24	.06		.01				0
11	124	.47	123	.39	121	b .06		0			*	0
12	124	.47	127	.39	a	.06		0				0
13	1.24	.47	121	b .37	a	.07		0	*			0
14	124	.47	a	.35	118	b .06	*	0				0
15	1.23	.44		.35	a	.05		0				0
16	124	.47	WELL FROZEN	.35	1.20	b .05		0				0
17	124	.47		.35	a	.05		0				0
18	125	.50	a	.35		.05		0			*	0
19	1.24	.47	1.26	b .35		.04		0	*			0
20	124	.47	a	.30		.04		0				0
21	123	.44		.25	WELL FROZEN	.04		0				0
22	S	.36		.18		.04		0			a	.02
23	a	.25		.15	a	.04		0			a	.06
24	1.23 b	.28		.10	a	.04		0			S	.19
25	120	.33		.05		.02		0	*		a	.05
26	1.21	.33		.02	CLOCK STOPPED	.03		0				0
27	1.21	.32		.03		.03		0				0
28	1.21	.35		.04		.03		0	*			0
29	1.20	.36		.03		.03	*	0				0
30	1.22	.36	a	.03		.03		0	X	X		0
31	1.22 b	.35	X	X	a	.03		0	X	X	S	.08
Total		12.39		7.74		1.38		0.23		0		.40

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	a	.38	1.10	.07	1.05	.07	1.06	.10	1.15	.24	1.17	.24
2		.35	1.10	.07	1.04	.07	1.02	.05	1.15	.24	1.17	.24
3		.25	1.10	.07	1.04	.07	1.03	.06	1.15	.24	1.17	.24
4		.21	1.10	.07	1.03	.07	1.04	.07	1.15	.24	1.17	.24
5	a	.27	1.10	.07	1.02	.06	1.03	.06	1.15	.24	1.17	.24
6	1.17	.35	1.09	.07	1.03	.07	1.02	.06	1.13	.20	1.17	.24
7	1.22	.50	1.08	.06	1.02	.06	1.02	.07	1.12	.22	1.17	.24
8	1.18	.38	1.08	.06	1.02	.06	1.02	.05	1.15	.24	1.16	.22
9	a	.24	1.07	.05	1.00	.04	1.02	.05	1.15	.24	1.16	.22
10		.20	1.06	.04	1.00	.04	1.02	.05	1.15	.24	1.17	.24
11		.12	1.06	.04	0.97	.03	1.03	.06	1.15	.22	1.16	.22
12		.10	1.05	.04	1.04	.08	1.03	.06	1.15	.22	1.16	.22
13		.08	1.05	.04	S	.07	1.02	.07	1.15	.22	1.15	.20
14		.08	1.05	.04	S	.07	1.05	.07	1.15	.22	1.15	.18
15		.08	1.04	.03	1.04	.07	1.04	.06	1.15	.22	1.15	.18
16		.08	1.05	.04	1.04	.08	1.05	.07	1.1	.22	1.15	.18
17		.08	1.04	.03	1.07	.12	1.05	.07	1.15	.22	1.15	.18
18		.09	1.05	.04	1.05	.10	1.06	.08	1.15	.22	1.16	.20
19	a	.10	1.06	.05	1.06	.12	1.05	.07	1.15	.22	1.16	.20
20	1.19	.24	1.07	.05	1.05	.10	1.05	.07	1.16	.22	1.16	.20
21	1.19	.24		.07	1.05	.10	1.06	.08	1.16	.22	1.16	.20
22	1.19	.24		.08	1.06	.12	1.03	.12	1.15	.24	1.16	.20
23	1.19	.24		.09	1.05	.10	1.10	.16	1.1	.26	1.16	.20
24	1.18	.22	a	.09	1.06	.12	1.11	.18	1.17	.26	1.17	.22
25	1.18	.22	1.10	.10	1.07	.14	1.13	.22	1.16	.26	1.17	.22
26	1.17	.20	1.09	.08	1.06	.12	1.13	.22	1.17	.26	1.16	.20
27	1.15	.16	1.07	.07	1.06	.12	1.13	.22	1.17	.26	1.16	.20
28	1.14	.14	1.06	.06	1.06	.12	1.13	.22	1.17	.24	1.16	.20
29	1.12	.10	1.05	.06	1.07	.14	1.13	.20	1.17	.24	1.16	.20
30	1.12	.10	1.07	.08	1.07	.14	1.14	.22	1.17	.24	1.15	.20
31	X	X	1.05	.07	X		1.14	.22	1.17	.24	X	X
Total		6.04		1.89		2.72		3.36		7.20		6.36

Calendar Year 1975 6557

Mean Second-feet per square mile

9-193-a. July 1937

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of CORRAL GULCH ~~River~~ Creek

At Near RANGELY, COLORADO for the Year Ending September 30, 1976

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

CORRAL GL. NR. RANGELY, CO. 1976

File Number { Washington 0930 / District

Used rating table dated No. 3

Drainage Area 31.6 Square Miles. Water-Stage Recorder CONTINUOUS Ratio 1 : 6

Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ..... and hundredths below and tenths above these limits.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	1.15	.54	1.16	.63	1.14	.50	1.14	0.50	1.13	0.40	S	1.4
2	1.15	.54	1.14	.63	1.14	.50	1.14	.50	1.13	.40	1.17	.50
3	1.15	.54	1.15	.63	1.14	.50	1.14	.50	1.13	.40	1.16	.43
4	1.15	.54	1.18	.63	1.14	.50	1.14	.50	1.13	.40	1.17	.46
5	1.15	.50	1.18	.63	1.14	.50	1.14	.46	1.12	.36	1.17	.43
6	1.15	.50	1.18	.68	1.13	.46	1.14	.46	1.12	.36	1.16	.40
7	1.15	.50	1.18	.68	1.13	.46	1.14	.46	1.12	.36	1.17	.43
8	1.15	.50	1.18	.68	1.13	.46	1.14	.46	1.12	.36	1.17	.40
9	1.16	.54	1.18	.68	1.13	.46	1.14	.46	S	.82	1.17	.40
10	1.16	.54	[illegible]	.63	1.13	.46	1.13	.43	1.22	.84	1.17	.36
11	1.16	.54	[illegible]	.63	1.13	.46	1.12	.40	1.20	.73	1.18	.40
12	1.16	.54	1.16	.58	1.13	.46	1.13	.43	1.20	.73	1.18	.40
13	1.16	.54	1.16	.58	1.13	.46	1.12	.40	1.18	.68	1.17	.36
14	1.16	.54	1.16	.58	1.13	.46	1.12	.40	1.18	.68	1.17	.36
15	1.16	.54	1.16	.58	1.13	.46	1.12	.40	1.14	.54	1.17	.36
16	1.16	.54	1.16	.58	1.13	.46	1.11	.36	1.14	.54	1.17	.36
17	1.16	.54	1.16	.58	1.13	.46	1.11	.31	1.14	.54	1.20	.46
18	1.16	.54	1.16	.58	1.13	.46	1.11	.31	1.14	.54	S	2.1
19	1.16	.54	1.15	.54	1.13	.46	1.12	.36	1.15	.58	a	.40
20	1.16	.54	1.14	.50	1.13	.46	1.12	.36	1.14	.54	Well silted	.40
21	1.16	.54	1.14	.50	1.13	.46	1.12	.36	1.14	.54		.40
22	1.16	.54	1.13	.46	1.13	.46	1.12	.36	1.14	.54		.40
23	1.16	.54	1.13	.46	1.13	.46	1.12	.36	1.14	.54	a	.40
24	1.16	.54	1.13	.46	1.14	.50	1.13	.40	1.15	.58	S	.55
25	1.16	.54	1.13	.46	1.14	.50	1.13	.40	1.15	.58	1.17	.36
26	1.17	.58	1.13	.46	1.14	.50	1.13	.40	1.16	0.63	1.18	.40
27	1.18	.63	1.13	.46	1.14	.50	1.14	.43	S	1.3	1.16	.31
28	1.18	.63	1.13	.46	1.14	.50	1.14	.43	S	1.0	1.16	.31
29	1.17	.58	1.14	.50	1.13	.46	1.14	.43	S	1.2	1.16	.31
30	1.17	.58	1.14	.50	1.13	.46	1.14	.43	X	X	1.15	.29
31	1.19	.62	X	X	1.13	.46	1.14	.43	X	X	1.16	.31
Total		16.98		16.95		14.66		12.89		17.77		14.88

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	S	1.3	1.18	.50	1.22	.54	1.22	.68	1.20	1.0	[illegible]	.43
2	S	1.1	[illegible]	.50	1.20	.46	1.22	.68	[illegible]	1.0	[illegible]	.41
3	S	1.3	1.19	.41	1.20	.46	1.22	.68	[illegible]	1.0	[illegible]	.43
4	S	.89	1.19	.46	1.19	.46	1.21	.68	[illegible]	1.0	[illegible]	.43
5	a	.63	1.18	.41	1.17	.40	1.22	.73	[illegible]	.94	[illegible]	.43
6	a	.58	1.18	.41	1.17	.40	1.22	.73	[illegible]	.94	[illegible]	.43
7	a	.56	1.20	.54	1.17	.40	a	.74	[illegible]	.84	[illegible]	.46
8	1.18	.54	1.20	.50	1.16	.36	CLK. STOPPED R.I.S. 1.18-1.25	.75	[illegible]	.89	[illegible]	.46
9	1.18	.54	1.19	.46	1.16	.36		.76	[illegible]	.89	[illegible]	.46
10	1.18	.54	1.19	.46	1.16	.36		.76	[illegible]	.84	[illegible]	.50
11	1.18	.54	[illegible]	.43	1.16	.36		.77	[illegible]	.89	[illegible]	.46
12	1.18	.54	[illegible]	.43	1.17	.40		.77	[illegible]	.84	[illegible]	.50
13	1.18	.54	1.22	.54	1.18	.43	a	.78	[illegible]	.84	[illegible]	.50
14	1.19	.58	1.23	.58	1.18	.43	1.22	.79	[illegible]	.79	[illegible]	.50
15	1.15	.54	1.25	.68	1.19	.46	1.20	.68	[illegible]	.68	[illegible]	.50
16	1.19	.58	1.25	.68	1.20	.50	1.21	.73	[illegible]	.63	[illegible]	.46
17	1.20	.63	1.25	.68	1.23	.63	1.22	.73	[illegible]	.63	[illegible]	.46
18	1.20	.68	1.26	.73	1.24	.68	1.25	.74	[illegible]	.63	[illegible]	.43
19	1.20	.68	1.28	.84	1.23	.63	1.25	.74	[illegible]	.58	[illegible]	.43
20	[illegible]	.68	1.31	1.0	1.22	.58	1.24	.81	[illegible]	.54	[illegible]	.40
21	1.20	.63	1.31	1.0	1.22	.58	1.25	1.0	[illegible]	.54	6	.36
22	1.19	.58	1.32	1.0	1.25	.73	1.25	1.0	[illegible]	.50	19	.31
23	1.19	.58	1.32	1.0	1.25	.73	1.25	1.0	[illegible]	.50	19	.31
24	1.18	.54	1.32	1.0	a	.73	1.25	1.0	[illegible]	.46	[illegible]	.36
25	1.18	.54	1.28	.84	CLK. STOPPED R.I.S. 1.20-1.27	.73	1.26	1.0	[illegible]	.50	[illegible]	.36
26	1.19	.58	1.30	.94		.72	1.26	1.0	[illegible]	.50	[illegible]	.36
27	1.19	.54	1.25	.68		.71	1.25	.94	[illegible]	.50	[illegible]	.31
28	1.19	.54	1.23	.58		.70	1.25	.94	[illegible]	.50	[illegible]	.29
29	1.18	.50	1.22	.54		.70	1.25	.94	[illegible]	.46	[illegible]	.29
30	1.18	.50	1.23	.58	a	.69	1.25	.89	[illegible]	.46	[illegible]	.29
31	X	X	1.24	.63	X	X	1.26	.94	[illegible]	.46		
Total		20.00		20.18		16.32		25.92		21.77		12.37

Calendar Year 1975	325.48
Total	216
Mean	0.5
Second-feet per square mile	
Run-off in inches	
Run-off in acre-feet	
Maximum	
Minimum	

Max. Disch. 1.3 Sec-ft. at 1730 on 1/15, 5, (G. H.) 1.35 (G. H.) Max. G. H. ft at ... on

Min. Disch. 3.2 Sec-ft. on 1/15, 16, 22, 23, 30, 31 (G. H.) Min. G. H. ft on

S—Estimated. SUBMERGED. Not enough water to run. Backwater from ice. Ice effect.

9-193-a. July 1937

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of CORRAL GULCH ~~River~~ Creek

At 84 RANCH NR. RANGELY, COLO. for the Year Ending September 30, 1976

Drainage Area 37.8 Square Miles. Water-Stage Recorder CONTINUOUS Ratio 1 : 6

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Corral Gulch @ 84 Ranch 1976 Wyr.

File Number { Washington 09306 / District

Used rating table dated #1 OCT. 1 - FEB 25 AD; #2 FEB 26 TO APR 8, 1976

Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ... and ... hundredths below and tenths above these limits.

Max. Disch. .48 Sec-ft on 1300 on APR 18 (G H. 2.12 ft.) Max. G. H. ..... ft on .....

Min. Disch. ..... Sec-ft on ..... (G H. ..... ft.) Min. G. H. ..... ft on .....

Note: From Feb. 14 to ..... gage height varies from combination of 9" flume and 12" flume, and is unaffected by backwater from ice. Subtracted daily 9" flume only.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	a	.10	1.16	.19	1.09	.10	1.07	.05	1.03	.01	5	1.3
2	a	.10	1.16	.19	1.09	.10	1.01	.03	1.03	.01	1.22	.30
3	1.13	.12	1.15	.18	1.09	.10	1.08	.06	1.03	.01	1.11	.20
4	1.14	.14	1.15	.18	1.09	.10	1.08	.06	1.03	.01	1.10	.20
5	1.14	.15	1.15	.18	1.09	.09	1.08	.06	1.03	.01	1.10	.20
6	1.13	.14	1.15	.18	1.07	.07	1.08	.06	1.03	.01	1.11	.25
7	1.13	.14	1.14	.16	1.07	.07	1.08	.06	1.03	.01	1.19	.30
8	1.14	.15	1.16	.19	1.06	.06	1.08	.06	1.03	.01	1.24	.40
9	1.14	.15	1.17	.21	1.05	.05	1.08	.06	5	.08	1.13	.10
10	1.14	.15	1.16	.19	1.05	.05	1.08	.06	a	.23	1.06	.12
11	1.13	.14	1.16	.19	1.07	.07	1.07	.05	Flume removed Oct.	.23	a	.14
12	1.13	.14	1.15	.18	1.06	.06	1.07	.05		.21	FLOW BELOW INTAKE	.18
13	1.15	.16	1.15	.18	1.03	.03	1.07	.05		.19		.14
14	1.16	.18	1.15	.18	1.03	.03	1.07	.05		.16		.10
15	1.16	.18	1.14	.14	1.03	.03	1.07	.05		.08		.20
16	1.15	.16	1.14	.14	1.03	.03	1.06	.04		.08		.14
17	1.15	.18	1.15	.18	1.02	.01	1.06	.04		.10	a	.20
18	1.15	.18	1.15	.18	1.02	.01	1.07	.05		.10	5	.84
19	1.14	.16	1.15	.18	1.02	.01	1.07	.05	a	.14	10	.33
20	1.14	.16	1.11	.14	1.03	.03	1.07	.05	1.27	.38	1.08	.23
21	1.13	.15	1.14	.14	1.03	.03	1.06	.04	1.23	.31	1.10	.25
22	1.13	.15	1.13	.15	1.04	.03	1.06	.04	1.16	.19	1.10	.23
23	1.17	.21	1.13	.15	1.04	.03	1.05	.03	1.19	.24	1.06	.10
24	1.16	.19	1.13	.15	1.03	.01	1.05	.03	1.18	.22	a	.10
25	1.16	.19	1.11	.13	1.01	0	1.04	.01	1.18	.22	a	.10
26	1.17	.21	1.10	.11	1.00	0	1.04	.01	5	.78	1.17	.47
27	1.17	.21	1.10	.11	1.00	0	1.03	.00	5	1.0	1.10	.22
28	1.17	.21	1.10	.11	0.99	0	a	.01	5	1.0	a	.16
29	1.16	.19	1.10	.11	1.01	0	a	.01	5	1.1	a	.14
30	1.15	.18	1.10	.11	1.01	0	1.03	.01	X	X	a	.12
31	1.17	.21	X	X	1.01	0	1.03	.01	X	X	1.09	.16
Total		5.10		4.80		1.20		1.26		7.14		7.89

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	a	.30	1.14	.19	1.20	.16	a	.06	1.15	.11	a	.01
2	ALLOWED	.40	1.14	.21	1.21	.18	1.09	.03	1.14	.01		.01
3	INTAKE	.30	1.13	.21	1.20	.16	1.09	.03	1.09	.01		.01
4		.25	1.13	.21	a	.14	1.08	.01	1.04	.03		.01
5		.20	1.14	.22		.13	1.09	.03	1.00	.03		.01
6		.16	1.15	.20		.12	1.10	.01	a	.01	INTAKE	.01
7		.12	1.17	.27		.10	1.11	.03		.01		.01
8	a	.11	1.16	.29		.09	1.11	.05		.01	BELOW	.01
9	1.12	.19	1.14	.24		.09	1.11	.03		.01		.01
10	1.13	.21	1.14	.24		.10	1.11	.03		.01		.01
11	1.13	.21	1.12	.21		.10	1.11	.03		.01	SURFACE	.01
12	1.13	.21	1.11	.21		.10	1.11	.03		.01		.01
13	1.13	.21	1.10	.19		.11	1.11	.03		.01		.01
14	1.14	.22	1.10	.19		.11	1.08	.03		.01		.01
15	1.13	.21	1.10	.19		.12	1.05	.03		.01		.01
16	1.13	.21	1.09	.16		.12	1.04	.01		.01		.01
17	1.15	.22	1.09	.16		.11	a	.04		.01		.01
18	1.16	.24	1.08	.14		.10	1.07	.05		.01		.01
19	1.14	.19	1.10	.16		.10	1.10	.09		.01		.01
20	1.12	.16	1.11	.18		.09	1.09	.07		.01		.01
21	1.12	.16	1.12	.19		.08	1.07	.05		.01		.01
22	1.12	.16	1.11	.15		.08	a	.03		.01		.01
23	1.13	.16	1.11	.12		.08		.01		.01		.01
24	1.13	.16	1.20	.19		.09		.01		.01		.01
25	1.15	.19	1.22	.19		.10		.01		.01		.01
26	1.16	.21	1.23	.21		.10	a	.01		.01		.01
27	1.15	.19	1.21	.18		.10	1.13	.10		.01		.01
28	1.15	.19	1.20	.16		.10	1.09	.05		.01		.01
29	1.15	.19	1.20	.16		.09	1.10	.06		.01		.01
30	1.14	.18	1.22	.19	a	.08	1.09	.05	a	.01	a	.01
31	X	X	1.23	.21	X	X	1.10	.05	a	.01	X	X
Total		6.11		6.06		3.23		1.12		0.57		0.30

Mean, Second-feet per square mile

Run-off in inches

Run-off in acre-feet

Calendar Year 1975

Water Year

9-199-a. July 1937

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Yellow ~~River~~ Creek

Near White River City, COLO for the Year Ending September 30, 1976

Drainage Area ..... Square Miles. Water-Stage Recorder ..... Ratio 1 : 6

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Yellow Creek nr White River City
09306255 File Number { Washington ..... District .....

Used rating table dated No. 3

Gage Read to ..... Once/Twice a Day by .....

Gage heights used to half tenths between ..... and hundredths below and tenths above these limits.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	4.11	1.2	4.77	2.9	5.30	1.6	a	1.5	4.14	1.2	a	3.7
2	4.71	1.1	4.77	2.6	5.11	1.8		.90	4.75	1.3		3.8
3	4.72	1.2	4.76	2.5	5.10	1.8		1.0	4.75	1.3		3.9
4	4.72	1.1	4.72	2.5	5.15	1.7		1.0	4.75	1.3		3.5
5	4.71	1.1	4.77	2.4	5.27	1.7		1.0	4.75	1.4		3.2
6	4.71	1.1	4.71	2.5	5.40	1.8		.95	a	1.5		3.2
7	4.73	1.1	4.73	2.5	5.20	1.8		1.1	a	1.5		3.2
8	4.74	1.2	4.63	2.8	5.15	1.9		1.2	a	1.6		3.1
9	4.73	1.1	4.60	2.7	4.82	1.8		1.1	a	1.6		3.1
10	4.73	1.1	4.73	2.7	4.85	1.8		1.0	4.84	1.7		3.0
11	4.72	.98	4.76	2.5	4.80	1.9	Intakes frozen	1.2	4.87	1.8		3.1
12	4.72	.98	4.71	2.4	a	1.9		1.1	4.88	1.8		3.1
13	4.74	1.0	4.77	2.5	a	1.9		1.0	5.40	2.0		3.1
14	4.75	1.1	4.77	2.6	a	1.3		1.2	5.37	2.0		3.1
15	4.75	1.0	4.73	2.7	5.07	1.0		1.2	5.45	2.1		3.1
16	4.75	1.1	4.76	2.7	4.97	1.7		1.2	5.15	2.2		3.0
17	4.75	1.2	4.[illegible]	2.7	4.84	1.6		1.2	4.92	2.0		3.1
18	4.75	1.3	4.[illegible]	2.4	4.74	1.5		1.2	4.92	2.4		3.0
19	4.74	1.4	4.72	2.4	4.73	1.5		1.2	4.73	2.4		3.0
20	4.74	1.5	4.60	1.8	4.74	1.5		1.3	4.86	1.9	a	3.0
21	4.74	1.6	5.05	1.8	4.76	1.5		1.3	4.90	2.2	a	2.9
22	4.77	1.8	4.75	2.0	4.85	1.5		1.5	4.75	1.2	a	2.8
23	4.8[illegible]	2.1	4.77	2.0	4.96	1.5		1.5	4.85	1.8	a	2.8
24	4.75	1.8	4.76	2.0	4.90	1.5		1.6	4.85	1.8	a	2.7
25	4.73	1.7	4.88	2.0	5.10	1.7		1.3	4.95	2.6	4.82	1.7
26	4.73	2.5	4.70	1.4	5.29	1.7		1.4	5.05	3.5	4.80	1.6
27	4.83	2.6	5.25	1.7	4.78	1.7		1.3	a	3.5	4.76	1.4
28	4.83	2.7	5.12	2.0	4.70	1.6		1.5	a	3.5	4.74	1.3
29	4.78	2.3	4.83	1.6	4.77	1.4		1.5	a	3.6	4.71	1.2
30	4.77	2.3	4.92	2.0	4.87	1.7		1.6			4.76	1.5
31	5.02	5.1			4.78	1.7	a	1.6			4.81	1.8
Total		49.4		69.3		56.3		38.6		58.7		85.9

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	4.24	1.9	4.80	1.6	4.78	1.2	4.65	.56	5.15	4.0	4.60	.50
2	4.82	1.9	4.80	1.6	4.78	1.2	4.73	.56	4.85	1.6	4.60	.50
3	4.75	2.1	4.81	1.7	4.75	1.2	4.62	.53	4.75	1.0	4.60	.50
4	4.75	2.2	4.80	1.6	4.77	1.2	4.62	.50	4.65	.73	4.59	.45
5	4.89	2.6	4.82	1.7	4.75	1.1	4.62	.50	4.71	.88	4.61	.50
6	4.90	2.7	4.84	1.8	4.74	1.1	4.61	.47	4.69	.80	4.63	.56
7	4.85	2.3	4.84	1.8	4.75	1.1	4.59	.43	4.67	.73	4.64	.59
8	4.85	2.3	4.85	1.8	4.73	1.0	4.58	.40	4.67	.76	4.65	.62
9	4.83	2.2	4.85	1.8	4.73	1.0	4.58	.40	4.70	.88	4.64	.59
10	4.82	2.1	4.84	1.7	4.71	.93	4.57	.38	4.72	.98	4.65	.59
11	4.80	1.9	4.84	1.7	4.71	.93	4.56	.36	4.72	1.00	4.66	.62
12	4.82	2.0	4.83	1.7	4.73	1.0	4.55	.34	4.71	.98	4.65	.67
13	4.83	2.1	4.82	1.6	4.72	.98	4.51	.28	4.67	.80	4.65	.67
14	4.82	2.0	4.80	1.5	4.80	1.4	4.51	.28	4.66	.76	4.69	.70
15	4.83	2.0	4.80	1.5	4.76	1.2	4.51	.28	4.69	.70	4.72	.80
16	4.83	2.0	4.80	1.4	4.76	1.1	4.52	.28	4.63	.67	4.73	.82
17	4.87	2.3	4.80	1.4	4.77	1.2	4.54	.31	4.63	.65	4.7[illegible]	.73
18	4.87	2.3	4.78	1.3	4.76	1.2	4.58	.36	4.63	.65	a	.70
19	4.85	2.2	4.80	1.4	4.74	1.0	4.54	.31	4.62	.62	a	.70
20	4.83	2.0	4.83	1.6	4.72	.93	4.52	.43	4.62	.62	a	.70
21	4.82	1.9	4.83	1.6	4.70	.84	4.50	.25	4.63	.65	a	.70
22	4.82	1.9	4.83	1.6	4.77	1.2	4.48	.27	4.62	.62	a	.70
23	4.80	1.8	4.83	1.6	4.78	1.2	4.47	.23	4.65	.67	4.70	.67
24	4.78	1.6	4.86	1.7	4.79	1.2	4.47	.25	4.63	.62	4.73	.76
25	4.79	1.7	4.84	1.6	4.72	.93	4.48	.25	4.62	.59	4.72	.73
26	4.83	1.9	4.82	1.5	4.68	.73	4.49	.27	4.64	.65	4.68	.62
27	4.83	1.9	4.80	1.4	4.65	.73	4.49	.27	4.66	.70	4.65	.62
28	4.81	1.7	4.79	1.3	4.67	.70	4.49	.28	4.63	.62	4.68	.62
29	4.81	1.7	4.78	1.2	4.66	.67	4.53	.34	4.62	.56	4.67	.59
30	4.80	1.7	4.80	1.4	4.64	.93	4.53	.34	4.61	.53	4.67	.59
31			4.79	1.3			4.57	.41	4.60	.50	X	
Total		60.9		48.4		31.1		11.1				

Max. Disch. .....
Min. Disch. .....

Calendar Year

Mean.
Second-feet per square mile.
Run-off in inches
Run-off in acre-feet.

Max. G. H. ..... ft. .....
Min. G. H. ..... ft. .....
(G. H. ..... ft.) .....
(G. H. ..... ft.) .....

Quarter: Fourth, Second, First, Fourth, Third, Second, First, Fourth, Third, Second, First, Fourth, Third, Second, First, Fourth, Third, Second, First, Fourth

Period: Year

Computed

G.H. repeat

9-199-a. July 1937

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of BOX ELDER GULCH TRIB. ~~River~~ ~~Creek~~

Near RANGELY, COLORADO for the Year Ending September 30, 1976

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

BOX ELDER GL. TRIB.
NR. RANGELY, CO
1976

File Number { Washington 09300 / District

Used rating table dated NO 2

Drainage Area 2.39 Square Miles. Water-Stage Recorder CONTINUOUS Ratio 1 : 6 Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ... and hundredths below and tenths above these limits

Max. Disch. 1.4 Sec.-ft. at 1500 on Feb. 28 (G. H. — ft.) Max. G. H. ... ft. on ...
Min. Disch. 0 Sec.-ft. on ... (G. H. ... ft.) Min. G. H. ... ft. on ...
Sec.-ft. per sq. mile ... Runoff in inches ... Acre-feet ...
* Discharge at gage height ... Flow

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1										0		0
2										0		0
3										0		0
4										0		0
5								NO FLOW		0		0
6	*1									0		0
7										0		0
8									*1	0		0
9									a	.10		0
10										.20		0
11									WELL FROZEN	.20		0
12										.05		0
13							*1		*3	.10		0
14		NO FLOW		NO FLOW		NO FLOW			a	.30		0
15										0		0
16										0		0
17									a	0		0
18									*1	0	a	.05
19										0		0
20										0		0
21										0		0
22										0		0
23										0		0
24										0		0
25										0		0
26										0		0
27										0		0
28									*4 a	.20		0
29										0		0
30									X	X		0
31			X	X					X	X		0
Total		0		0		0		0		1.15		0.05

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12			*1									
13												
14												
15												
16		No Flow		NO FLOW		NO FLOW		NO FLOW				
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31	X	X			X	X					X	X
Total		0		0		0		0		0		0

Calendar Year 1975 0.29

Mean ...
Second-feet per square mile ...
Run-off in inches ...

Fourth Quarter ... Third Quarter ... Second Quarter ... First Quarter ... Computed ... G.H. copied ... Peak for Year ...

9-193-a. July 1937

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of STAKE SPRINGS DRAW ~~River~~ ~~Creek~~

* Near RANGELY, COLO. for the Year Ending September 30, 1976.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

STAKE SPRINGS DRAW
NR RANGELY, COLO.
1976

File Number { Washington 093 / District

Drainage Area 26.1 Square Miles. Water-Stage Recorder CONTINUOUS Ratio 1 : 6 Gage Read to ..... Once / Twice a Day by ..... Used rating table dated No. 1

Gage heights used to half tenths between ..... and ..... hundredths below and tenths above these limits.

Max. Disch. 172 Sec-ft at 1200 on 1/25 (G. H. 1.13 ft.) Max G. H. ..... ft at ..... on .....
Min. Disch. ..... Sec-ft on ..... (G. H. ..... ft.) Min. G. H. ..... ft on .....

S - DISCHARGE SUBMITTED. V - VARIABLE SHIFT. DISCHARGE ESTIMATED FOR
"" - NO GAGE HEIGHT RECORD ..... " 6" ICE EFFECT
* - OBSERVATION OF NO FLOW

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	a		a		a		a			0	1.15	1.4
2										0		0
3										0		0
4										0		0
5			a							0		0
6										0		0
7	a									0		0
8										0		0
9										0		0
10										0		0
11										0		0
12									S	.04		0
13									S	.01		0
14									S	.34		0
15									S	.25		0
16	a						a			0		0
17			a							0		0
18			a							0	S	1.2
19										0	S	.73
20										0		0
21										0		0
22										0		0
23										0		0
24										0		0
25										0		0
26									S	.11		0
27									S	.84		0
28									1.16	1.5		0
29									1.15	1.4		0
30			a						X	X		0
31	a		X	X	a				X	X		0
Total		0		0		0		0		4.49		3.33

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31	X	X			X	X					X	X
Total		0		0		0		0		0		0

Calendar Year 1975 0 Mean ..... Second-feet per .....

99-a. July 1937

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of YELLOW CR. TRIB. ~~River~~ ~~Creek~~

~~At~~ Near "84 RANCH", COLORADO for the Year Ending September 30, 1976

Drainage Area ..... Square Miles. Water-Stage Recorder CONTINUOUS Ratio 1 : 6

Gage Read to ..... Once / Twice a Day by .....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

YELLOW CR. TRIB
NR. "84 RANCH, CO.
1976

File Number { Washington 09306200
District .....

Used rating table dated NO. 1

Gage heights used to half tenths between ... and ... feet, hundredths below and tenths above these limits.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December 1975 Gage height	December 1975 Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1										0	S	0 2.5
2										0		0
3										0		0
4			*1							0		0
5										0		0
6										0		0
7										0		0
8										0		0
9										0		0
10										0	*1	0
11										.80		0
12									1 S	b 2.4		0
13									2 S	b 1.7		0
14		NO FLOW		NO FLOW		NO FLOW		NO FLOW	3 S	b 1.7		0
15									a	0		0
16							*1			0		0
17									GLK STOPPED	0	S	b 1.1
18										0	S	b 2.5
19									*1 a	0		0
20										0		0
21										0		0
22										0		0
23										0		0
24										0		0
25										0		0
26									S	b 2.0	*1	0
27									S	3.2		0
28									S	1.8		0
29									S	b 2.5		0
30									X	X	*1	0
31			X	X					X	X		0
Total		0		0		0		0		16.1		6.10
Mean												
Second-feet per square mile												
Run-off in inches												
Run-off in acre-feet												

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1			*1									
2											*1	
3											a	
4												
5												
6												
7												
8												
9												
10												
11												
12											a	
13		NO FLOW				NO FLOW		NO FLOW		NO FLOW	*1	
14												
15				NO FLOW								NO FLOW
16												
17												
18												
19					*1		*1					
20												
21					*1							
22												
23	*1											
24												
25					*1							
26			*1									
27												
28												
29												
30												
31	X	X			X	X					X	X
Total		0		0		0		0		0		0
Mean												
Second-feet per square mile												
Run-off in inches												
Run-off in acre-feet												

Day	Quarter First	Quarter Second	Quarter Third	Quarter Fourth	Quarter G. H. copied	Quarter G. H. checked	Quarter Computed	Quarter Checked	Quarter Disch. applied	Quarter Disch. checked
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Period Year										
Total										22.2
Mean										.06

9-199-a. July 1937

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of DUCK ~~River~~ Creek

At ~~Near~~ UPPER STA. NR "84 RANCH", COLO for the Year Ending September 30, 1976

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

DUCK CR @ UPPER STA. 1976

File Number { Washington 0930655 / District

Used rating table dated NO. 1

Drainage Area 39.1 Square Miles. Water-Stage Recorder CONTINUOUS Ratio 1 : 6

Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ... and hundredths below and tenths above these limits.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1										0	5	0.1
2										0		0
3										0		0
4			*]							0		0
5										0		0
6										0		0
7										0		0
8									*]	0		0
9										0	*]	0
10										0		0
11										0		0
12									1 / 1.28 b	.60		0
13									2 / 1.25 b	.30		0
14									3 / 1.10 b	.12		0
15										0		0
16		No Flow		No Flow		No Flow	*]	No Flow		0		0
17										0		0
18										0	*] 5	1.5
19									*]	0	5	.14
20										0		0
21										0		0
22										0		0
23										0		0
24										0	5	.04
25										0	5	.01
26										0		0
27										0		0
28										0		0
29										0		0
30									X	X	*]	0
31									X	X		0
Total		0		0		0		0		1.02		2.39

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1		0		0								
2				0								
3				0								
4				0								
5				0								
6				0								
7				0								
8				0								
9				0								
10				0								
11				0								
12				0								
13				0								
14		NO FLOW		0		NO FLOW		NO FLOW				
15				0								
16				0								
17				0								
18				0			*]					
19				0								
20			5	.31								
21				0	*]							
22	*]			0								
23				0								
24				0								
25				0								
26			*]	0								
27				0								
28				0								
29				0								
30				0								
31	X	X		0	X	X	X	X			X	X
Total		0		0.31		0		0		0		0

Max Disch. 115 Sec-ft. at 1200 on 11/12/75 (G. H. 3.04 ft.) Max. G. H. ..... ft. at ..... on .....

Min. Disch. ..... Sec-ft. on ..... (G. H. ..... ft.) Min. G. H. ..... ft. on .....

CALENDAR YEAR

S - DISCHARGE SUBMITTED BY "VIRGINIA SMITH, DISCHARGE ASSISTANT"

"a" - NO GAGE HEIGHT RECORD. b - ICE EFFECT

X - DISCHARGE OF NO FLOW

Mean Second-feet per square mile

Run-off in inches

Run-off in acre-feet

Quarter	First	Second	Third	Fourth
Computed	VWW	VWW	CEK	CEK
Checked	CEK	CEK	CEK	CEK
Disch. applied	VWW	VWW	CEK	CEK
Disch. checked	CEK	CEK	CEK	CEK
G. H. copied	VWW	VWW	CEK	CEK
G. H. checked	CEK	CEK	CEK	CEK

9-199-a. July 1937

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

DUCK CR. NR. 84 RANCH 1976

File Number { Washington 09306 / District

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of DUCK ~~River~~ Creek

★ Near "84" RANCH, COLO. for the Year Ending September 30, 1976

Used rating table dated NO. 1

Drainage Area 50 Square Miles. Water-Stage Recorder CONTINUOUS Ratio 1 : 6

Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ..... and hundredths below and tenths above these limits.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1										0	S	0.10
2										0	S	.07
3										0		0
4										0		0
5										0		0
6										0		0
7										0		0
8										0		0
9										0		0
10										0		0
11										0		0
12									a	.05		0
13									a	.03		0
14									a	.01		0
15									1.10	.65		0
16		No Flow		No Flow		No Flow		No Flow	S	.27		0
17										0		0
18										0	S	2.1
19										0	S	.51
20										0		0
21										0		0
22										0	S	.04
23										0	S	.12
24										0	S	.28
25										0	S	.14
26										0		0
27										0		0
28									S	3.9		0
29									S	2.9		0
30									X	X		0
31									X	X		0
Total		0		0		0		0		7.81		4.04

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1							a					
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19							a					
20					a							
21												
22												
23					a							
24												
25												
26												
27												
28												
29												
30					a							
31	X	X			X	X					X	X
Total		0		0		0		0		0		0

CLOCK STOPPAGE — NO RANGE IN STAGE

No Flow

Max. Disch. 1.2 See-ft. at ..... on ..... (G. H. ..... ft.) Max. G. H. ..... ft. at ..... on ..... (G. H. ..... ft.)

Min. Disch. ..... See-ft. on ..... (G. H. ..... ft.) Min. G. H. ..... ft. on ..... (G. H. ..... ft.)

Mean ..... Second-feet per square mile ..... Run-off in inches ..... Run-off in acre-feet .....

Calendar Year 1975 N/A

PRELIMINARY DATA SUBJECT TO REVISION

U.S.G.S. STREAM GAGING STATION 09306235
CORRAL GULCH NEAR WEST LINE TRACT C-a

CONTINUOUS TEMPERATURE
CONTINUOUS SPECIFIC CONDUCTANCE

Canal bl. Water

Updated on
Canal & T

Parameter 1/4 day values

Conductivity µmhos/cm

Temp. °C

Instantaneous Field values

				0600	1200	1800	2400				
15	76	1		[illegible]	[illegible]	1000	994	[illegible]	[illegible]	[illegible]	1020
15	76	2		[illegible]	[illegible]	20.8	11.6	20.8	[illegible]	[illegible]	28.0
[illegible]	76	1		[illegible]	1000	980	992	[illegible]	[illegible]	990	
	76	2		[illegible]	[illegible]	20.7	13.7	[illegible]	[illegible]	13.7	
17	76	1		[illegible]	[illegible]	[illegible]	946	[illegible]	[illegible]	958	
17	76	2		8.5	[illegible]	[illegible]	10.8	[illegible]	[illegible]	11.7	
18	[illegible]	1		[illegible]	[illegible]	[illegible]	1021	[illegible]	[illegible]	[illegible]	
18	[illegible]	2		[illegible]	[illegible]	[illegible]	11.5	[illegible]	[illegible]	15.6	
[illegible]	[illegible]	1		1005	[illegible]	[illegible]	101[illegible]	[illegible]	[illegible]	[illegible]	
	[illegible]	2		6.6	[illegible]	[illegible]	13.7	13.1	[illegible]	[illegible]	
	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	[illegible]	2		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	[illegible]	1		[illegible]	[illegible]	[illegible]	10		[illegible]	[illegible]	
	[illegible]	2		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	[illegible]	1		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
	[illegible]	2		[illegible]	[illegible]						
	[illegible]	1		[illegible]	[illegible]	[illegible]				[illegible]	
	[illegible]	2		[illegible]	[illegible]	26.1	[illegible]			[illegible]	
[illegible]	[illegible]	1		[illegible]	[illegible]	[illegible]	1001	[illegible]	[illegible]	[illegible]	1050
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	26.4	10.9	[illegible]	[illegible]	15.[illegible]	24.5
				[illegible]	[illegible]	[illegible]	1012	[illegible]	[illegible]	[illegible]	

[illegible]	[illegible]	1	1084	[illegible]	914	1096	1062	[illegible]	1[illegible]	
[illegible]	[illegible]	2	7.[illegible]	[illegible]	29.5	[illegible]	37.1	[illegible]	18.8	
[illegible]	[illegible]	1	1038	[illegible]	832	1004	1074	[illegible]	9.[illegible]	
[illegible]	[illegible]	2	6.9	[illegible]	24.9	14.1	33.1	[illegible]	12.1	
[illegible]	76	1	1018	[illegible]	816	989	1002	5	962	
[illegible]	76	2	7.8	[illegible]	41.1	13.8	35.2	.0	16.4	
[illegible]	76	1	1004	[illegible]	[illegible]	964	[illegible]	[illegible]	98[illegible]	
[illegible]	76	2	8.0	[illegible]	[illegible]	15.2	33.[illegible]	3	17.8	
[illegible]	76	1	95[illegible]	[illegible]	844	953	1[illegible]	4	95.5	1010 29
[illegible]	76	2	10.2	[illegible]	26.1	15.9	[illegible]	1	18.7	
[illegible]	76	1	[illegible]	[illegible]	94.7	38.[illegible]	99.3	[illegible]	915.5	Look like probe out for so perio during day
[illegible]	[illegible]	2	12.[illegible]	[illegible]	27.0	15.4	3[illegible]	10.5	18.0	
[illegible]	76	1	[illegible]	[illegible]	0	604	[illegible]	.10	[illegible]	
[illegible]	76	2	[illegible]	[illegible]	24.4	13.[illegible]	[illegible]	1.5	[illegible]	
[illegible]	76	1	[illegible]	[illegible]	0.0	838.8	[illegible]	[illegible]	[illegible]	
[illegible]	76	2	8.5	[illegible]	25.0	13.8	[illegible]	[illegible]	[illegible]	

[illegible]	76	1	[illegible]	[illegible]	171	889	1001	[illegible]	[illegible]
[illegible]	76	2	[illegible]	[illegible]	26.7	15.5	31.2	[illegible]	17.6
5	76	1	[illegible]	[illegible]	465	769	1004	[illegible]	[illegible]
5	76	2	8.2	[illegible]	25.4	15.0	[illegible]	[illegible]	[illegible]
[illegible]	76	1	[illegible]	[illegible]	[illegible]	815.4	[illegible]	[illegible]	864.8
6	76	2	9.8	22.3	26.3	17.8	29.5	9.3	18.9
7	76	1	900.9	873.6	841.9	897.2	971.0	[illegible]	842.4
7	76	2	11.7	21.8	[illegible]	16.5	[illegible]	[illegible]	18.2
8	76	1	[illegible]	866.1	8.9	901.0	[illegible]	[illegible]	900.7
8	76	2	10.[illegible]	24.6	28.1	15.8	[illegible]	[illegible]	19.9
9	76	1	984.4	[illegible]	707.9	898.4	[illegible]	[illegible]	845.4
9	76	2	11.[illegible]	21.7	[illegible]	16.7	[illegible]	[illegible]	[illegible]
10	76	1	[illegible]	[illegible]	711.1	875.8	[illegible]	[illegible]	[illegible]
10	76	2	12.[illegible]	25.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	76	2	[illegible]	21.1	24.3	18.1	[illegible]	[illegible]	[illegible]
[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	76	2	[illegible]	21.7	[illegible]	18.8	[illegible]	[illegible]	[illegible]
	76	1	[illegible]	[illegible]	[illegible]	995	[illegible]	[illegible]	[illegible]
	76	2	[illegible]	24.6	31.0	16.5	[illegible]	[illegible]	[illegible]
[illegible]	76	1	[illegible]	[illegible]	[illegible]	969	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	76	1	[illegible]	[illegible]	[illegible]	950	[illegible]	[illegible]	[illegible]
	76	2	[illegible]	[illegible]	30.6	15.[illegible]	34.1	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	906	[illegible]	[illegible]	[illegible]

[illegible]	76	1	[illegible]	984	997	966	1060	[illegible]	977	
[illegible]	76	2	[illegible]	18.7	29.5	17.3	32.9	[illegible]	16.7	
17	76	1	956	[illegible]	1034	972	1[illegible]	[illegible]	986	←
17	76	2	12.8	21.5	26.8	18.9	30.3	11.6	20.8	
18	76	1	987	1064	959	940	1017	[illegible]	973	
18	76	2	13.4	19.7	24.1	17.7	27.2	[illegible]	19.2	
19	76	1	962	1037	1004	967	1043	955	990	
19	76	2	14.9	21.8	26.1	18.2	31.8	[illegible]	20.3	
20	76	1	962	1012	980	950	1050	932	978	
20	76	2	14.9	20.3	23.4	16.0	25.6	[illegible]	18.7	
21	76	1	982	988	[illegible]	[illegible]	[illegible]	921	[illegible]	1000
21	76	2	16.3	18.8	[illegible]	[illegible]	28.5	[illegible]	[illegible]	28.5

[illegible] GULCH BL. WATER GULCH
[illegible]

MO	DY	YR	PHR	0600	1200	1800	2400	MAX	MIN	MEAN
[illegible]	1	76	1	[illegible]	[illegible]	1008	986	1020	958	996
[illegible]	21	76	2	0.0	0.0	28.2	17.9	29.0	13.8	22.6
	22	76	1	951	962	984	914	1036	980	957
[illegible]	22	76	2	16.9	17.9	30.7	16.5	32.6	9.6	19.0
[illegible]	23	76	1	913.0	944.2	944.1	885.4	961.4	871.6	921.7
[illegible]	23	76	2	9.9	18.4	28.4	17.1	33.8	7.9	18.5
	24	76	1	856.5	905.5	[illegible]	842.5	[illegible]	823.4	874.5
[illegible]	24	76	2	10.4	15.5	35.8	17.5	35.5	[illegible]	18.[illegible]
	25	76	1	[illegible]	916.7	879.5	842.6	907.0	761.0	[illegible]
[illegible]	25	76	2	13.6	19.7	19.9	15.9	27.2	[illegible]	[illegible]
[illegible]	26	76	1	824.	868.9	[illegible]	787.8	851.9	[illegible]	839.[illegible]
[illegible]	26	76	2	[illegible]	17.2	[illegible]	17.2	[illegible]	[illegible]	[illegible]
[illegible]	27	76	1	[illegible]	851.1	817.8	0.0	900.0	785.4	829.5
[illegible]	27	76	2	11.6	18.[illegible]	26.7	17.8	31.5	10.9	19.[illegible]
[illegible]	28	76	1	0.0	0.0	0.0	0.0	0.0*****		0.0
[illegible]	28	76	2	11.9	18.3	28.5	17.4	31.1	10.[illegible]	19.0
[illegible]	29	76	1	0.0	0.0	0.0	0.0	0.0*****		0.0
[illegible]	[illegible]	76	2	[illegible]	[illegible]	26.3	16.8	28.1	10.3	17.8
[illegible]	[illegible]	[illegible]	1	0	0	0	4556	4556	4556	1556
[illegible]	[illegible]	76	[illegible]	[illegible]	[illegible]	27.4	18.5	31.5	11.9	19.5

1000
28.5

[illegible]	76	1	0	0	0	1556	1556	1556	1556	
[illegible]	76	2	13.0	19.1	27.4	18.5	31.5	11.9	19.5	
[illegible]	76	1	0	0	0	1926	1926	1926	1926	
[illegible]	76	2	14.1	19.8	22.9	18.7	32.3	13.3	20.4	
[illegible]	76	1	0.0	0.0	0.0	0.0	0.0******		0.0	
1	76	2	14.6	16.9	21.2	15.8	22.0	14.0	17.1	
2	76	1	0.0	0.0	0.0	0.0	0.0******		0.0	1110
[illegible]	76	2	12.6	15.4	23.7	15.5	29.0	12.0	16.8	21.0
[illegible]	76	1	0.0	0.0	0.0	0.0	0.0******		0.0	
[illegible]	76	2	10.4	17.2	25.3	14.2	28.2	9.5	16.8	
[illegible]	76	1	0.0	0.0	0.0	0.0	0.0******		0.0	
4	76	2	9.8	16.7	26.8	13.4	29.4	8.9	16.7	
5	76	1	0.0	0.0	0.0	0.0	0.0******		0.0	

[illegible]	[illegible]	76	2	8.2	15.0	27.5	13.6	[illegible]	[illegible]	16.[illegible]
[illegible]	[illegible]	76	1	0.0	0.0	0.0	0.0	[illegible]		0.0
[illegible]	[illegible]	76	2	7.8	15.1	25.1	13.3	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	0.0	0.0	0.0	0.0	[illegible]		0.0
[illegible]	[illegible]	76	2	8.2	15.6	[illegible]	15.1	21.5	7.8	15.9
[illegible]	[illegible]	76	1	0.0	0.0	0.0	0.0	[illegible]		0.0
[illegible]	[illegible]	76	2	10.5	16.5	[illegible]	13.7	[illegible]	[illegible]	16.[illegible]
[illegible]	[illegible]	[illegible]	1	0.0	0.0	0.0	0.0	[illegible]		0.0
[illegible]	[illegible]	76	2	10.[illegible]	16.[illegible]	[illegible]	13.5	[illegible]	9.0	[illegible]
[illegible]	[illegible]	76	1	0.0	0.[illegible]	0.0	0.0	[illegible]		0.0
[illegible]	[illegible]	76	2	8.[illegible]	[illegible]	[illegible]	14.4	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	13.2	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	0.0	[illegible]		0.0
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	13.9	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	0.0	[illegible]	[illegible]	0.0	[illegible]		0.0
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	13.9	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	0.0	0.0	0.0	0.0	[illegible]		0.0
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	0.0	0.0	0.0	0.0	[illegible]		0.0
[illegible]	[illegible]	76	2	8.[illegible]	[illegible]	[illegible]	13.2	[illegible]	[illegible]	15.[illegible]
[illegible]	[illegible]	[illegible]		0.0	0.0	0.0	0.0	[illegible]		0.0

1100

18.5

[illegible]	[illegible]	[illegible]	1	0.0	0.9	[illegible]	0.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		8.5	[illegible]	[illegible]	14.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	0	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	10.0	[illegible]	[illegible]	15.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	10	[illegible]	1	[illegible]	[illegible]	[illegible]	0.0	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	11.5	[illegible]	5.8	15.5	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	0		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	11	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

105

20

[illegible] BL. WATER [illegible]

Conductivity

hour

Temperature

Instantan[illegible]
Field Valu[illegible]

[illegible]	[illegible]	76	[illegible]	0600	1200	1800	2400		MAX	MIN	MEAN	1050
[illegible]	[illegible]	76	[illegible]	0	0	1135	1150		1165	1104	1145	
[illegible]	[illegible]	76	[illegible]	0.0	0.0	22.4	11.1		23.7	0.0	16.7	21.0
[illegible]	29	76	1	1147	1157	1151	1169		[illegible]	1120	[illegible]	
[illegible]	30	76	2	7.6	13.7	19.0	11.1		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	1	1142	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	11.1		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	1	[illegible]	[illegible]	1137	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	2	[illegible]	[illegible]	16.7	10.7		[illegible]	[illegible]	[illegible]	
[illegible]		76	1	1156	[illegible]	[illegible]	1141		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	2	8.5	[illegible]	20.1	11.1		21.7	[illegible]	13.4	
[illegible]	24	76	1	1127	[illegible]	1127	1151		[illegible]	[illegible]	[illegible]	
	24	76	2	6.6	[illegible]	[illegible]	10.3		24.0	[illegible]	[illegible]	
[illegible]	[illegible]	76	1	1124	[illegible]	1087	1066		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	2	6.1	[illegible]	[illegible]	10.2		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	1	1071	[illegible]	1126	1113		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	2	6.0	[illegible]	18.9	10.6		[illegible]	[illegible]	[illegible]	
		76	1	[illegible]	[illegible]	1113	1097		[illegible]	[illegible]	[illegible]	
		76	[illegible]	[illegible]	[illegible]	21.4	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]		76	1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	[illegible]	5.6	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76		5.6	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	

[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
1	76	2	5.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
2	76	1	1101	[illegible]	1092	[illegible]	1168	[illegible]	[illegible]	
2	76	2	5.3	[illegible]	20.2	[illegible]	[illegible]	[illegible]	[illegible]	
3	76	1	1103	[illegible]	1103	[illegible]	[illegible]	[illegible]	[illegible]	
3	76	2	[illegible]	[illegible]	20.7	[illegible]	[illegible]	[illegible]	[illegible]	
4	76	1	[illegible]	[illegible]	1075	1091	[illegible]	[illegible]	[illegible]	
4	76	2	5.1	9.9	20.4	9.9	[illegible]	[illegible]	[illegible]	
5	76	1	[illegible]	[illegible]	1081	1073	1106	[illegible]	[illegible]	
5	76	2	[illegible]	[illegible]	19.1	[illegible]	20.8	[illegible]	[illegible]	ok
6	76	1	[illegible]	[illegible]	1049	[illegible]	[illegible]	[illegible]	[illegible]	
6	76	2	0.0	[illegible]	0.0	0.0	[illegible]	[illegible]	[illegible]	
7	76	1	[illegible]	[illegible]	1042	1077	1104	[illegible]	[illegible]	
7	76	2	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	
8	76	1	[illegible]	[illegible]	1074	1154	1124	[illegible]	1154	
8	76	2	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	

[illegible]	[illegible]	1	[illegible]	1075	1110	1117	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	33.3	[illegible]	[illegible]	[illegible]	
10	76	1	1114	1100	1099	1117	[illegible]	[illegible]	[illegible]	
10	76	2	33.3	[illegible]	33.3	33.3	[illegible]	[illegible]	[illegible]	
11	76	1	1127	1111	1101	1115	[illegible]	[illegible]	[illegible]	
11	76	2	[illegible]	33.3	33.3	33.3	[illegible]	[illegible]	[illegible]	
12	76	1	1097	1122	1113	1121	1146	[illegible]	[illegible]	
12	76	2	[illegible]	33.3	33.3	33.3	[illegible]	[illegible]	[illegible]	
13	76	1	1110	1094	1101	1106	1124	[illegible]	[illegible]	
13	76	2	[illegible]	33.3	33.3	33.3	[illegible]	[illegible]	[illegible]	
14	76	1	1115	1076	[illegible]	1107	[illegible]	[illegible]	[illegible]	
14	76	2	[illegible]	33.3	[illegible]	33.3	[illegible]	[illegible]	[illegible]	
[illegible]	76	1	[illegible]	1111	[illegible]	[illegible]	[illegible]	1134	[illegible]	
[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

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[illegible]	DA	YR	MNO	0000	1200	1500	2400	[illegible]	[illegible]	[illegible]
[illegible]	13	76	1	0	[illegible]	1100	1102	[illegible]	1068	1164
[illegible]	13	76	2	8.8	8.6	16.7	11.1	17.7	[illegible]	[illegible]
[illegible]	[illegible]	76	1	1073	[illegible]	[illegible]	1097	[illegible]	[illegible]	[illegible]
	[illegible]	76	[illegible]	7.7	[illegible]	20.3	11.8	22.0	[illegible]	[illegible]
[illegible]	[illegible]	76	1	1087	[illegible]	1073	1105	[illegible]	[illegible]	[illegible]
[illegible]	17	76	2	8.1	[illegible]	[illegible]	11.1	[illegible]	[illegible]	13.0
[illegible]	[illegible]	76	1	[illegible]	[illegible]	1068	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	1.4	10.6	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	9.7	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	1077	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	10.2	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	11.7	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1100
13.0

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21.0

[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1100
12.5

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[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	76	1	944.7	933.9	915.6	985.4	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	2	2.3	[illegible]	2.8	2.9	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	76	1	[illegible]	[illegible]	900	[illegible]	1004	[illegible]	[illegible]		
	.5	76	2	[illegible]	[illegible]	6.9	2.5	[illegible]	[illegible]	[illegible]		
[illegible]	.5	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	.5	76	2	2.1	[illegible]	5.6	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	.5	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	.5	76	1	[illegible]	[illegible]	[illegible]	985.6	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	.5	76	1	[illegible]	[illegible]	[illegible]	[illegible]	1016	[illegible]	[illegible]	1380	
[illegible]	.5	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.5	

U.S.G.S. STREAM GAGING STATION
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CONTINUOUS TEMPERATURE
CONTINUOUS CONDUCTANCE

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REMOVE PROGRAM TAPE, ENTER [illegible]
ENTER NUMBER OF PARAMETERS??
ENTER FILE TO LOAD [illegible]
ENTER FILE TO LOAD [illegible]
ENTER YR,MO,DA,HR OF [illegible]
ENTER YR,MO,DA,HR OF [illegible]
ENTER TIME CORRECTION [illegible]
ENTER [illegible] INTERVAL [illegible]
[illegible] TAPE SHIFTS ? [illegible]
ENTER MO,DA,SHIFT FOR [illegible]
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ENTER MO,DA,SHIFT FOR [illegible]

MO	DA	YR	PAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

REMOVE PROGRAM TAPE

[illegible]	21	76	[illegible]	[illegible]	[illegible]	[illegible]	1376	[illegible]	[illegible]	[illegible]	1320
[illegible]	21	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.
[illegible]	22	76	[illegible]	[illegible]	[illegible]	[illegible]	1374	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	22	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	23	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	23	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	24	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	24	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	25	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	25	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	26	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	26	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	76	1	[illegible]	1343	1304	1313	[illegible]	[illegible]	[illegible]		
	76	2	10.1	14.7	20.6	12.6	23.1	[illegible]	14.6		
[illegible]	76	1	1285	984	[illegible]	1301	[illegible]	951	1199		
[illegible]	76	2	10.8	14.7	19.2	13.6	21.5	9.8	14.6		
[illegible]	76	1	1009	1026	1062	1312	1472	983	1179		
[illegible]	76	2	11.6	15.9	21.5	15.3	23.3	11.0	16.0		
[illegible]	76	1	[illegible]	1333	1297	1475	[illegible]	1280	[illegible]		
[illegible]	76	2	[illegible]	16.5	20.0	15.4	[illegible]	11.7	[illegible]		
[illegible]	76	1	1379	1326	1304	1366	[illegible]	1260	[illegible]		
[illegible]	76	2	12.6	14.4	16.8	[illegible]	[illegible]	12.4	[illegible]		
[illegible]	76	1	[illegible]	1268	1293	[illegible]	1336	[illegible]	[illegible]	1420	
[illegible]	76	2	[illegible]	[illegible]	19.8	[illegible]	[illegible]	[illegible]	[illegible]	18.5	
[illegible]	76	1	[illegible]	1218	1230	1341	1360	1094	[illegible]		
[illegible]	76	2	[illegible]	14.9	20.0	13.0	21.8	10.1	14.6		
[illegible]	76	1	1315	1306	1279	1294	1324	1270	[illegible]		
[illegible]	76	2	10.1	[illegible]	19.3	11.0	21.0	[illegible]	[illegible]		
[illegible]	76	1	[illegible]	[illegible]	1292	[illegible]	[illegible]	[illegible]	1307		
[illegible]	76	2	[illegible]	[illegible]	21.4	[illegible]	[illegible]	7.9	14.0		

[illegible]	[illegible]	76	1	[illegible]	1295	1207	124[illegible]		13[illegible]6	11[illegible]1	12[illegible]
[illegible]	6	76	2	[illegible]	12.6	18.5	11.3		20.5	[illegible].9	12.6
8	7	76	1	[illegible]	1244	1188	1218		1260	1182	1225
8	7	76	2	0.0	12.6	17.9	12.2		19.9	7.3	12.7
[illegible]	8	76	1	1246	1247	1206	1264		1280	1191	1241
[illegible]	8	76	2	10.3	13.3	17.0	11.9		19.6	7.2	13.1
[illegible]	9	76	1	[illegible]	1247	1195	1209		1260	1191	1226
[illegible]	9	76	2	10.1	13.6	18.1	11.6		20.7	[illegible].1	13.4
[illegible]	10	76	1	1285	1269	1212	1247		[illegible]	1191	1233
[illegible]	10	76	2	8.3	12.7	16.3	12.3		19.9	8.0	12.5
[illegible]	11	76	1	[illegible]	[illegible]	[illegible]	1269		[illegible]	1210	1241
[illegible]	11	76	2	10.4	13.1	15.4	11.7		14.7	[illegible].2	12.7
[illegible]	[illegible]	76	1	[illegible]	1244	[illegible]	1210		[illegible]	1191	[illegible]
[illegible]	[illegible]	76	2	9.7	13.7	16.6	11.9		21.5	8.3	13.6
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	1216		[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	9.5	12.1	[illegible]	12.1		16.9	[illegible]	[illegible]
[illegible]	14	76	1	[illegible]	[illegible]	[illegible]	1203		[illegible]	[illegible]	[illegible]
[illegible]	14	76	2	8.6	[illegible]	[illegible]	11.2		[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	1191		1248	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	16.6	11.1		18.4	[illegible]	[illegible]
[illegible]	16	76	1	1217	[illegible]	1178	1193		[illegible]	[illegible]	1201
[illegible]	16	76	2	[illegible]	[illegible]	[illegible]	[illegible]		18.6	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1165	1196		[illegible]	1155	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.5	12.6			[illegible]	[illegible]	12.9
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	1199		[illegible]	1164	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.0	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	~~[illegible]~~	~~[illegible]~~		1256	~~[illegible]~~	~~[illegible]~~	1000
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	~~[illegible]~~	~~[illegible]~~		~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	18.0

[illegible]
[illegible] CH NR RANGELY
[illegible]

[illegible]	[illegible]	YR	PAR	0600	1200	1800	2400	MAX	MIN	MEAN
[illegible]	19	76	1	[illegible]	[illegible]	1007	1007	1035	997	~~[illegible]~~ 1000
	19	76	2	[illegible]	[illegible]	11.4	11.1	17.9	9.8	~~[illegible]~~ 18.0
[illegible]	20	76	1	1007	1042	1010	1013	1054	[illegible]	1026
[illegible]	20	76	2	9.1	12.8	16.2	11.3	18.7	7.6	12.3
	21	76	1	1006	[illegible]	1002	1014	1046	997	1021
	21	76	2	8.9	12.7	16.1	11.6	19.2	[illegible]	12.4
[illegible]	22	76	1	1023	1021	1030	1021	1102	[illegible]	1031
[illegible]	22	76	2	9.0	11.5	15.3	11.6	18.6	[illegible]	11.2
	23	76	1	1051	[illegible]	1003	1002	1054	1000	1021
[illegible]	23	76	2	10.2	13.6	16.5	11.6	16.4	10.0	13.0
[illegible]	24	76	1	1035	1030	984	998	1046	976	1012
[illegible]	24	76	2	8.9	12.4	17.7	11.1	19.9	7.9	12.5
[illegible]	25	76	1	1013	1000	990	1002	1017	983	1005
[illegible]	25	76	2	8.3	11.7	15.9	11.0	18.0	7.4	11.7
[illegible]	26	76	1	1021	1013	993	1015	1022	983	1018
[illegible]	26	76	2	5.8	12.1	15.1	11.4	17.1	[illegible]	11.9
[illegible]	27	76	1	1033	1023	995	1009	1040	983	1015
[illegible]	27	76	2	8.5	11.6	17.4	10.5	19.4	7.5	12.0
[illegible]	28	76	1	1021	1022	1000	1019	[illegible]	990	1016
[illegible]	28	76	2	7.5	11.1	17.2	10.7	[illegible]	[illegible]	11.6
[illegible]	[illegible]	76	1	1033	1027	999	1017	[illegible]	[illegible]	1019
[illegible]	29	76	2	7.8	11.3	16.8	10.7	18.3	7.9	11.9

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	26	1	10.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	26	2	7.8	11.3	16.0	[illegible]	[illegible]	[illegible]	.73	[illegible]
[illegible]	6	[illegible]	1	10.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	8.4	11.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.5	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	26	2	[illegible]	[illegible]	[illegible]	15.[illegible]	[illegible]	[illegible]	[illegible]	11.7
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	26	2	[illegible]	[illegible]	[illegible]	10.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	26	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	26	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
10	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
14	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
14	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	13.8	7.4	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	~~[illegible]~~	~~[illegible]~~	[illegible]	~~[illegible]~~	~~[illegible]~~	1150	
[illegible]	[illegible]	2	[illegible]	[illegible]	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	[illegible]	~~[illegible]~~	12.0	

1150
12.0

1225
14.0

[illegible]

[illegible]	[illegible]	YR	PRK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	YR	PRK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	42.4	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	8.7	14.4	9.1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	2	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	2	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3	76	2	[illegible]	[illegible]	[illegible]	9.7	[illegible]	[illegible]	[illegible]
[illegible]	4	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	4	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	5	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	5	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	6	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	6	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	7	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	7	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1100
1.0

[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	76	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	123
[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.

U.S.G.S. STREAM GAGING STATION 09306244
CORRAL GULCH SOUTH OF 84 MESA

CONTINUOUS TEMPERATURE
CONTINUOUS SPECIFIC CONDUCTANCE

79306244

[illegible] [illegible] 6 04 PAGE 4
[illegible]

Recorder stopped
7-22 to 8-02

DY	MO	YR	PAR	0600	1200	1800	2400	MAX	MIN	MEAN
				PRELIMINARY DATA SUBJECT TO REVISION						
[illegible]	[illegible]	76	1	—	2034	1720	1716	2034	1662	[illegible]
[illegible]	[illegible]	76	2	—	24.2	23.0	16.6	24.2	[illegible]	[illegible]
[illegible]		76	1	[illegible]	1700	1719	1770	1799	[illegible]	1725
[illegible]	[illegible]	76	2	[illegible]	[illegible]	23.9	14.5	25.6	[illegible]	16.7
[illegible]	[illegible]	76	1	1770	1727	1699	1773	1790	[illegible]	1742
[illegible]	[illegible]	76	2	[illegible]	15.8	24.2	13.7	26.[illegible]	[illegible]	16.3
[illegible]	[illegible]	76	1	1770	[illegible]	1693	1760	1770	1662	1732
[illegible]	[illegible]	76	2	[illegible]	14.5	25.4	14.3	27.0	[illegible]	16.0
[illegible]	[illegible]	76	1	1757	[illegible]	1699	1773	1790	1662	1741
[illegible]	[illegible]	76	2	[illegible]	[illegible]	24.4	13.5	25.7	[illegible]	15.3
[illegible]	[illegible]	76	1	1767	[illegible]	1699	1777	1790	[illegible]	1743
[illegible]	[illegible]	76	2	[illegible]	[illegible]	24.0	14.4	25.2	[illegible]	15.3
[illegible]	[illegible]	[illegible]	1	1770	[illegible]	1693	1732	1770	[illegible]	[illegible]
[illegible]	[illegible]	76	2	11.7	[illegible]	20.6	13.0	23.[illegible]	10.6	15.1
[illegible]	[illegible]	76	1	1750	1722	1682	1744	1770	[illegible]	17[illegible]
[illegible]	[illegible]	76	2	11.3	15.0	23.7	13.8	26.[illegible]	10.0	16.1
[illegible]	[illegible]	76	1	1724	1713	[illegible]	1691	1790	[illegible]	[illegible]
[illegible]	[illegible]	76	2	9.5	[illegible]	20.5	13.7	23.[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	1	1730	[illegible]	1693	1724	1750	[illegible]	[illegible]
[illegible]	[illegible]	76	2	11.7	[illegible]	18.6	13.0	24.4	10.3	[illegible]
[illegible]	[illegible]	76	1	1743	[illegible]	1673	1744	17[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	25.2	14.2	26.[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	[illegible]	[illegible]	[illegible]	1679	1717	17[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	[illegible]	[illegible]	[illegible]	20.4	14.0	[illegible]	10.0	14.4

1740
23.0

14	[illegible]	1	1733	1728	1685	1763	1770	1662	1725
[illegible]	[illegible]	2	9.6	14.1	24.4	13.6	25.7	8.3	15.4
15	[illegible]	1	1760	1722	1699	1773	1790	1679	1739
[illegible]	[illegible]	2	9.7	14.3	22.6	13.3	24.1	7.4	14.9
16	[illegible]	1	1770	1722	1699	1767	1790	1679	1739
16	[illegible]	2	9.1	13.9	24.1	14.1	25.3	9.1	15.3
[illegible]	[illegible]	1	1779	1725	1682	1790	1770	1662	1732
[illegible]	[illegible]	2	10.4	14.4	21.7	14.8	21.9	10.1	15.2
[illegible]	[illegible]	1	1743	1719	1679	1736	[illegible]	1662	1721
[illegible]	[illegible]	2	11.9	15.4	23.7	15.1	[illegible]	10.5	16.6
[illegible]	[illegible]	1	1757	1710	1690	1748	1779	1679	[illegible]
[illegible]	[illegible]	2	10.3	15.0	24.4	15.1	25.3	9.9	[illegible]

20 1 1750

20 2 20.0

[illegible] WALCH AT 84 RANCH
[illegible]
[illegible]
[illegible] PROGRAM TAPE, ENTER RATING
[illegible] NUMBER OF PARAMETERS?2
[illegible] FILE TO LOAD RATINGS
[illegible] FILE TO LOAD RATINGS?
[illegible] YR,MO,DA,HR OF START?76,08,20,1500
[illegible] YR,MO,DA,HR OF END?76,09,17,1400
[illegible] TIME CORRECTION IN + OR - MINUTES?0
[illegible] PUNCH INTERVAL, IN MINUTES?60
[illegible] TIME SHIFTS ? 0=NO, 1=YES?1
[illegible] MO,DA,SHIFT FOR 1 ?08,20,-10
[illegible] MO,DA,SHIFT FOR 1 ?-1,1,-7
[illegible] MO,DA,SHIFT FOR 2 ?08,20,-37
[illegible] MO,DA,SHIFT FOR 2 ?-1,1,-57

PRELIMINARY DATA SUBJECT TO REVISION

MO	DA	YR	TAR	0600	1200	1800	2400	MAX	MIN	MEAN
[illegible] PROGRAM TAPE										
[illegible]	[illegible]	76	1	0	0	1780	1780	1790	1713	1766
	08	76	2	0.0	0.0	20.8	14.1	21.2	11.4	16.3
	21	76	1	1777	1744	1725	1767	1790	1696	1752
	21	76	2	10.2	14.2	21.8	14.6	23.2	5.2	15.2
	22	76	1	1770	1744	1716	1738	1770	1696	1740
	22	76	2	10.4	14.2	19.2	13.7	22.8	9.2	14.3
	[illegible]	76	1	1760	1741	1737	1783	1790	1713	1755
[illegible]	[illegible]	76	2	11.7	15.2	27.0	14.6	22.8	11.3	15.9
[illegible]	24	76	1	1790	1760	1740	1790	1810	1730	1770
[illegible]	24	76	2	10.1	13.5	24.2	14.4	25.6	6.7	15.5
8	25	76	1	1803	1787	1767	1797	1810	1750	1786
8	25	76	2	9.1	13.2	21.2	13.7	22.6	6.0	14.7
[illegible]	26	76	1	1810	1790	1763	1783	1810	1750	1787
[illegible]	26	76	2	9.5	13.1	20.0	13.9	21.9	3.7	14.2
8	[illegible]	76	1	1818	1770	1738	1793	1818	1713	1778
8	27	76	2	9.8	13.1	23.3	13.4	24.7	8.1	14.8
[illegible]	[illegible]	76	1	1799	1810	1767	1803	[illegible]	1750	1800
[illegible]	28	76	2	8	12.0	19.6	13.8	[illegible]	7.0	14.4

	29	76	1	[illegible]	[illegible]	1793	1817	[illegible]	1770	[illegible]
[illegible]	29	76	2	8.5	13.3	21.9	13.4	24.6	7.3	14.3
[illegible]	30	76	1	1827	1800	1794	1810	[illegible]	1770	[illegible]
[illegible]	30	76	2	[illegible]	12.8	22.5	14.5	24.1	8.3	11.9
[illegible]	31	76	1	1830	1797	1798	1813	1830	1770	[illegible]
[illegible]	31	76	2	9.9	12.9	22.4	13.2	23.7	9.3	14.6
[illegible]	1	76	1	1840	1997	1767	1790	[illegible]	1750	[illegible]
[illegible]	1	76	2	8.2	12.9	23.3	13.6	24.6	6.7	11.5
[illegible]	2	76	1	1810	2027	[illegible]	1797	[illegible]	1770	[illegible]
[illegible]	2	76	2	8.8	12.8	23.1	13.4	24.5	6.9	[illegible]
	[illegible]	76	1	1810	1817	1783	1800	[illegible]	1770	[illegible]
[illegible]	[illegible]	76	2	8.9	11.9	[illegible]	13.8	25.2	6.5	[illegible]
[illegible]	4	76	1	[illegible]	2027	1767	1810	[illegible]	[illegible]	[illegible]
	[illegible]	76	2	[illegible]	11.7	21.0	13.4	[illegible]	6.2	[illegible]
	[illegible]	76	1	[illegible]	[illegible]	1783	1810	[illegible]	[illegible]	[illegible]
	[illegible]	76	2	[illegible]	[illegible]	21.5	13.7	[illegible]	[illegible]	[illegible]
		76	1	[illegible]	[illegible]	1777	1777	[illegible]	[illegible]	[illegible]
		[illegible]	2	[illegible]	[illegible]	[illegible]	13.1	[illegible]	[illegible]	[illegible]
			1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]	6	1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
	76	2	[illegible]	[illegible]	[illegible]	12.7		[illegible]	[illegible]	[illegible]
	76	1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
	76	2	[illegible]	12.1	22.0	11.7		23.9	[illegible]	[illegible]
[illegible]	9	76	1	[illegible]	2433	1.80	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	9	76	2	9.7	14.4	21.9	12.7	23.9	6.3	14.7
[illegible]	1	76	1	[illegible]	[illegible]	1790	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	76	2	8.6	11.2	19.9	10.0	20.3	6.6	[illegible]
[illegible]	11	76	1	[illegible]	[illegible]	1490	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	11	76	2	[illegible]	14.1	21.1	[illegible]	24.9	[illegible]	[illegible]
[illegible]	12	76	1	[illegible]	[illegible]	1513	[illegible]	[illegible]	1476	[illegible]
[illegible]	12	76	2	9.0	[illegible]	16.7	[illegible]	21.[illegible]	[illegible]	[illegible]
[illegible]	1	76	1	[illegible]	[illegible]	1511	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	76	2	6.4	13.2	22.1	10.0	[illegible]	5.7	[illegible]
[illegible]	2	76	1	[illegible]	[illegible]	1490	[illegible]	[illegible]	1462	[illegible]
[illegible]	2	76	2	8.7	[illegible]	21.3	12.5	[illegible]	8.2	[illegible]
[illegible]	3	76	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3	76	2	[illegible]	[illegible]	17.[illegible]	[illegible]	[illegible]	6.2	[illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2	6.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

PRELIMINARY DATA SUBJECT TO REVISION

[illegible]

[illegible]

[illegible]	[illegible]	YR	PAR	0600	1200	1800	2400		MAX	MIN	MEAN
[illegible]	16	76	1	0	0	1720	1800		1810	1696	1769
[illegible]	16	76	2	4.0	6.8	16.1	18.7		[illegible]	7.8	13.7
[illegible]	17	76	1	1814	1770	1719	1800		[illegible]	1679	[illegible]
0	17	76	2	5.5	[illegible]	18.[illegible]	11.0		[illegible]	4.0	11.2
[illegible]	18	76	1	1810	1768	1707	1807		[illegible]	1679	[illegible]
[illegible]	[illegible]	76	2	5.3	[illegible]	19.1	[illegible]		[illegible]	3.9	11.8
[illegible]	19	76	1	1817	1765	1657	1803		[illegible]	1662	[illegible]
[illegible]	[illegible]	76	2	4.	5.[illegible]	19.8	18.[illegible]		[illegible]	3.1	10.[illegible]
[illegible]	20	76	1	1811	1766	1685	1803		[illegible]	1662	[illegible]
[illegible]	20	76	2	5.8	6.8	20.6	10.3		[illegible]	3.4	11.[illegible]
[illegible]	21	76	1	1817	1777	1717	1803		[illegible]	1679	[illegible]
[illegible]	[illegible]	76	[illegible]	3.8	[illegible]	[illegible]	11.1		[illegible]	[illegible]	10.8
[illegible]	22	76	1	[illegible]	[illegible]	1704	1773		1810	1679	[illegible]
[illegible]	22	76	[illegible]	8.1	[illegible]	[illegible]	10.1		17.7	[illegible]	11.0
[illegible]	23	76	1	[illegible]	[illegible]	[illegible]	1807		[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	76	2	[illegible]	[illegible]	15.6	16.5		[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1807		[illegible]	1750	[illegible]
	[illegible]			[illegible]	[illegible]	[illegible]	10.6		[illegible]	[illegible]	16.[illegible]

PRELIMINARY DATA SUBJECT TO REVISION

1700
17

1700
15.0

Recorder stopped 9-28 to 10-06

U.S.G.S. STREAM GAGING STATION 09306255
YELLOW CREEK NEAR WHITE RIVER, COLORADO

CONTINUOUS TEMPERATURE
CONTINUOUS SPECIFIC CONDUCTANCE

Coding Form for Input and Update of Daily Values--Continued

PRELIMINARY DATA SUBJECT TO REVISION

Station identification number 09306255 Water year 1975

	DAY	OCT (10)	NOV (11)	DEC (12)	JAN (01)	FEB (02)	MAR (03)	DAY	APR (04)	MAY (05)	JUNE (06)	JULY (07)	AUG (08)	SEPT (09)	DAY
Card No. 01	1	4200	3940	4440				1			4280		4960	4120	1
	2	4190	3980	4270			2970	2					4070	4100	2
	3	3960	3870	4170			3400	3					4360	4000	3
	4	3660	3800	4160			3510	4					4400	4100	4
	5	3780	3790				3780	5					4330	4140	5
	6	3630	3940				3440	6					4240	4020	6
	7	3700	3960				3260	7					4150	4060	7
	8	3750	3590				3540	8			4430		4410	4050	8
Card No. 02	9	3480	3580				4060	9			4630		4750	4060	9
	10	3780	3860				4170	10			4510		4200	3980	10
	11	3810	3790				3520	11			4170		4150		11
	12	4200	4080				4170	12			3900		4100		12
	13	4140	4370				4570	13			3770		4060		13
	14	3950	4350				4020	14			3730		3920	4470	14
	15	4420	4560			1700	3770	15			3820		4080	4040	15
	16	4650	5110			2720	4170	16			3840		[illegible]	3820	16
Card No. 03	17	4950	5140			3760	3120	17			3610		4040	3910	17
	18	4610	5170			3560	3450	18			3560		3900	3770	18
	19	4360	4970			3140	3610	19			3420	4110	3940	3720	19
	20	4270	4590			3090	4520	20			3360	4150	3930	3680	20
	21	4490	5200			3100	4320	21			3290	4180	3930	3630	21
	22	4230				3250	3930	22			3940	4220	3970	3660	22
	23	3980	5100			3000	5930	23				4220	3780	3700	23
	24	4280	5170			2750	4390	24				4190	3820	4020	24
Card No. 04	25	4730	5020			2640	4480	25		3910		4150	3840		25
	26	4520	5000			2430	5020	26		3590		4160	4040		26
	27	4630	4800				4730	27		3340		4210	3980		27
	28	4310	4660				4430	28		3440		4240	4140		28
	29	4300	4650				4580	29		3480		4100	4090		29
	30	4280	4470			-------		30		3730		4250	4050		30
	31	3910	-------			-------		31	-------	3880	-------	4240	4170	-------	31

TOTAL CHECK CARD

Type: T (1)

Water year: 17 – 20

Total value (sum of daily value entries): 21 – 32

Par Code 00095 Conduct

Stat Code 00001 Mean

Remarks

GPO : 1971 O - 442-477

Coding Form for Input and Update of Daily Values--Continued

PRELIMINARY DATA SUBJECT TO REVISION

Station identification number 09306255 Water year 1976

	DAY	OCT (10)	NOV (11)	DEC (12)	JAN (01)	FEB (02)	MAR (03)	DAY	APR (04)	MAY (05)	JUNE (06)	JULY (07)	AUG (08)	SEPT (09)	DAY
Card No. 01	1	3140	3730	4040				1			3860		1830	3950	1
	2	3650	3600	3930				2					2610	3940	2
	3	3260	3530	3920				3					2290	3930	3
	4	3200	3450	4000			2920	4					2920	3910	4
	5	3350	3460				2660	5					4100	3940	5
	6	3140	3390				2860	6					4030	3910	6
	7	3200	3360				2790	7					3810	3950	7
	8	3140	3260				2780	8			4400		3430	3980	8
Card No. 02	9	3930	3420				2630	9			4410		4060	3960	9
	10	3270	3270				2700	10			3890		3870		10
	11	3330	3360				2510	11			3340		4000		11
	12	3750	3370				3270	12			3190		3820		12
	13	3690	3830				2960	13			3240		3930		13
	14	3680	3870				2370	14			3340		3710	4080	14
	15	3380	3930			1020	1690	15			3500		3640	3220	15
	16	3730	4000			1610	2130	16			3450		3930	3710	16
Card No. 03	17	4230	4200			2480		17			3400		3770	3720	17
	18	3960	4410			2820		18			3290		3600	3710	18
	19	3730	4530			1830		19			3200	4020	3610	3680	19
	20	3600	4780			2480	3770	20			3200	3900	3580	3640	20
	21	3620	4770			2690	3640	21			3080	3820	3650	3610	21
	22	3380				2710	2870	22			2780	3900	3700	3600	22
	23	3140	4840			2570	2320	23				3900	3550		23
	24	3520	4690			2390	2580	24				3910	3520		24
Card No. 04	25	1930	4680			1640	4020	25		2980		3830	3610		25
	26	3860	4510			2110	3890	26		2750		3910	3530		26
	27	3750	4370				4130	27		2840		3950	3650		27
	28	3930	4360				4220	28		2870		3960	3640		28
	29	3790	4180				3710	29		3100		3750	3980		29
	30	3930	4170			-------		30		3190		3890	3890		30
	31	3510	-------			-------		31	-------	3470	-------	2840	3700	-------	31

TOTAL CHECK CARD

Type: T (1)

Water year: (17–20)

Total value (sum of daily value entries): (21–32)

Code 00095 Card

Sub Code 00002 M. n.

Remarks

GPO : 1971 O - 442-477

Coding Form for Input and Update of Daily Values--Continued

PRELIMINARY DATA SUBJECT TO REVISION

Station identification number 09306255 Water year

	DAY	OCT (10)	NOV (11)	DEC (12)	JAN (01)	FEB (02)	MAR (03)	DAY	APR (04)	MAY (05)	JUNE (06)	JULY (07)	AUG (08)	SEPT (09)	DAY
Card No. 01	1	3750	3820	4220				1					2860	4030	1
	2	3930	3750	4110				2					3550	4020	2
	3	3670	3640	4040				3					4170	4020	3
	4	3430	3580	4080			3120	4					4250	4010	4
	5	3530	3570				3270	5					4230	4030	5
	6	3410	3570				3170	6					4120	3960	6
	7	3470	3540				3090	7					3960	3990	7
	8	3370	3460				3030	8					3870	4000	8
Card No. 02	9	3260	3510				3150	9			4490		4260	4000	9
	10	3540	3570				3370	10			4260		4080		10
	11	3600	3540				3170	11			3870		4050		11
	12	3930	3690				3670	12			3730		4010		12
	13	3870	4130				3910	13			3560		4000		13
	14	3780	4190				3240	14			3560		3860	4330	14
	15	3870	4320			1410	2930	15			3690		3840	3840	15
	16	4270	4320			2270	3150	16			3660		3990	3760	16
Card No. 03	17	4540	4440			2830		17			3500		3860	3770	17
	18	4270	4700			3010		18			3340		3760	3740	18
	19	4080	4770			2640		19			3300		3810	3700	19
	20	3980	4840			2810	4040	20			3250	4000	3840	3660	20
	21	4020	5080			2900	3940	21			3150	3970	3860	3660	21
	22	3930				2900	3480	22			3510	4050	3800	3620	22
	23	3660	4980			2770	3280	23				4060	3730		23
	24	3820	4970			2580	3230	24				4050	3780		24
Card No. 04	25	3450	4950			2300	4250	25				3990	3770		25
	26	4270	4760			2260	4400	26		3160		4020	3730		26
	27	4260	4590				4370	27		3060		4050	3940		27
	28	4100	4510				4300	28		3120		4100	3930		28
	29	4020	4420				4280	29		3250		3990	4020		29
	30	4000	4330			-------		30		3440		4020	3950		30
	31	3700	-------			-------		31	-------	3650	-------	3940	4020	-------	31

TOTAL CHECK CARD

Type: T (1)

Water year (17–20)

Total value (sum of daily value entries) (21–32)

Code 00095

Code 00003

Remarks

PRELIMINARY DATA SUBJECT TO REVISION

Coding Form for Input and Update of Daily Values--Continued

Station identification number 09306255 Water year 1976

	DAY	OCT (10)	NOV (11)	DEC (12)	JAN (01)	FEB (02)	MAR (03)	DAY	APR (04)	MAY (05)	JUNE (06)	JULY (07)	AUG (08)	SEPT (09)	DAY
Card No. 01	1	18.0	12.5	2.0			4.0	1					24.5	25.5	1
	2	18.5	13.0	1.5			4.5	2					25.0	24.0	2
	3	18.5	12.0	1.0			[illegible]	3					28.5	26.0	3
	4	16.0	10.0	1.0			0.5	4					29.0	25.5	4
	5	19.0	11.5				1.0	5					30.5	25.5	5
	6	19.0	12.0				1.0	6					27.0	17.5	6
	7	16.5	11.0				1.5	7					26.5	19.5	7
	8	13.5	9.0				2.0	8			17.5		26.0	23.0	8
Card No. 02	9	15.0	1.0				5.5	9			29.5		27.0	22.5	9
	10	10.5	4.0				9.5	10			29.0		25.5	17.5	10
	11	16.0	4.5				8.0	11			23.5		26.0	21.0	11
	12	15.5	0.0				9.5	12			25.0		28.5	22.0	12
	13	12.0	0.0				6.5	13			23.0		22.0	22.5	13
	14	10.5	0.0			3.5	13.5	14			23.5		26.0	18.5	14
	15	13.5	2.5			2.0	12.5	15			27.5		23.5	19.5	15
	16	15.0	6.0			6.0	13.0	16			20.0		25.0	21.0	16
Card No. 03	17	15.5	0.0			5.0	13.5	17			24.0		25.5	23.0	17
	18	15.5	5.0			5.5	8.0	18			25.0		27.5	24.5	18
	19	15.0	3.0			5.0	8.5	19			29.0	31.5	27.0	23.5	19
	20	13.5	0.0			0.0	10.5	20			26.5	32.5	27.5	24.5	20
	21	13.5	0.0			0.0	12.5	21			28.0	32.5	30.5	24.0	21
	22	16.0	0.0			0.0	12.5	22			23.5	31.5	24.5	21.0	22
	23	4.0	0.0			0.0	16.5	23				32.5	23.0	23.0	23
	24	6.5	0.5			0.0	19.0	24				32.0	28.0	21.0	24
Card No. 04	25	1.0	0.0			4.5	7.5	25		23.0		32.5	26.5		25
	26	10.5	0.5			5.5	19.0	26		26.5		31.5	22.5		26
	27	6.0	1.5			4.5	20.0	27		27.0		31.5	27.0		27
	28	9.5	1.0			4.0	24.0	28		25.5		31.5	27.0		28
	29	11.0	0.0			3.5	23.0	29		25.5		30.0	25.5		29
	30	11.5	1.5			-------		30		23.5		33.5	25.5		30
	31	10.0	-------			-------		31	-------	28.5	-------	34.5	24.5	-------	31

TOTAL CHECK CARD

Type: T (1)

Water year: (17–20)

Total value (sum of daily value entries): (21–32)

Code 00010

Code 00001

Remarks

GPO : 1971 O - 442-477

PRELIMINARY DATA SUBJECT TO REVISION

Coding Form for Input and Update of Daily Values--Continued

Station identification number 09306255 Water year 1976

	DAY	OCT (10)	NOV (11)	DEC (12)	JAN (01)	FEB (02)	MAR (03)	DAY	APR (04)	MAY (05)	JUNE (06)	JULY (07)	AUG (08)	SEPT (09)	DAY
Card No. 01	1	5.5	1.0	0.0			-0.5	1					16.0	4.5	1
	2	0.0	0.0	0.0			-0.5	2					15.0	4.0	2
	3	0.5	0.0	0.0				3					13.5	4.0	3
	4	1.5	0.0	0.0			-0.5	4					11.5	4.0	4
	5	2.5	0.0				0.0	5					9.0	4.0	5
	6	3.0	0.0				0.5	6					7.5	5.5	6
	7	5.5	0.0				1.0	7					8.0	11.0	7
	8	3.0	4.5				1.5	8			14.5		10.5	7.0	8
Card No. 02	9	0.0	0.0				1.0	9			9.5		10.5	2.5	9
	10	1.0	0.0				1.0	10			7.5		8.5	6.5	10
	11	2.0	0.0				1.5	11			7.5		8.5	5.5	11
	12	1.5	0.0				1.5	12			9.0		8.5	5.0	12
	13	3.5	0.0				2.0	13			2.5		9.0	3.5	13
	14	1.0	0.0			0.5	1.5	14			2.5		7.0	6.5	14
	15	0.0	0.0			0.5	2.0	15			5.5		7.5	5.0	15
	16	0.0	0.0			1.0	2.5	16			8.0		7.0	5.0	16
Card No. 03	17	0.0	0.0			0.5	2.0	17			8.5		8.0	7.5	17
	18	0.5	0.0			0.0	0.0	18			7.5		11.0	7.5	18
	19	-0.5	0.0			0.0	0.0	19			7.0	18.0	10.0	6.5	19
	20	-0.5	0.0			-0.5	0.5	20			8.0	15.5	10.0	7.5	20
	21	-0.5	0.0			-0.5	1.0	21			8.5	11.5	9.0	5.5	21
	22	1.0	0.0			-0.5	1.0	22			10.0	11.5	9.0	12.0	22
	23	-0.5	-0.5			-0.5	3.5	23				10.0	12.5	14.5	23
	24	-0.5	-0.5			-0.5	3.5	24				12.0	8.0		24
Card No. 04	25	-0.5	-0.5			-0.5	4.0	25		8.5		14.0	7.0		25
	26	0.0	-0.5			-0.5	4.5	26		5.0		14.5	8.0		26
	27	0.0	-0.5			-0.5	5.5	27		6.5		14.0	8.0		27
	28	1.0	-0.5			-0.5	7.0	28		7.5		11.0	5.0		28
	29	0.0	-0.5			-0.5	3.5	29		7.0		12.0	5.5		29
	30	0.0	-0.5			-------		30		8.0		15.0	6.5		30
	31	11.0	-------			-------		31	-------	6.5	-------	16.5	7.0	-------	31

TOTAL CHECK CARD

Type: T (1)

Water year (17–20)

Total value (sum of daily value entries) (21–32)

- Code 00010 Temp

+ Code 00002 Prec

Remarks

Coding Form for Input and Update of Daily Values--Continued

PRELIMINARY DATA SUBJECT TO REVISION

Station identification number 09306255 Water year

	DAY	OCT (10)	NOV (11)	DEC (12)	JAN (01)	FEB (02)	MAR (03)	DAY	APR (04)	MAY (05)	JUNE (06)	JULY (07)	AUG (08)	SEPT (09)	DAY
Card No. 01	1	12.5	5.5	1.0			1.0	1					14.5	14.0	1
	2	8.0	5.5	1.0			0.5	2					19.0	13.0	2
	3	8.5	5.0	0.5				3					19.0	14.0	3
	4	8.5	4.0	0.5			0.0	4					18.5	13.5	4
	5	10.0	4.5				0.5	5					18.5	14.0	5
	6	10.0	5.0				1.0	6					16.5	13.5	6
	7	9.5	5.5				1.5	7					16.5	14.0	7
	8	7.0	6.5				2.0	8					17.0	13.5	8
Card No. 02	9	6.5	2.5				2.0	9			18.5		18.0	11.5	9
	10	7.5	1.0				3.0	10			16.5		16.5	11.5	10
	11	8.0	1.0				3.5	11			14.5		17.0	13.5	11
	12	8.0	0.0				3.0	12			15.5		17.0	13.0	12
	13	7.0	0.0				2.5	13			12.5		14.5	12.5	13
	14	5.0	0.0			1.5	5.0	14			11.5		16.0	11.5	14
	15	5.5	1.0			1.0	5.0	15			15.5		14.5	11.0	15
	16	6.5	1.5			2.5	5.5	16			13.0		15.5	12.5	16
Card No. 03	17	7.0	2.0			1.5	5.0	17			15.5		16.0	14.5	17
	18	7.0	1.5			2.0	3.0	18			17.0		18.5	14.5	18
	19	6.5	0.5			1.0	3.0	19			17.0		18.0	14.0	19
	20	5.0	0.0			0.0	3.5	20			17.0	22.0	18.0	15.0	20
	21	5.5	0.0			0.0	5.0	21			17.5	21.5	18.0	13.5	21
	22	6.5	0.0			0.0	6.0	22			16.0	21.0	16.0	15.0	22
	23	1.0	0.0			0.0	8.0	23				20.5	17.0	18.0	23
	24	1.5	0.0			0.0	9.5	24				21.5	17.0		24
Card No. 04	25	0.0	0.0			0.0	6.0	25				20.0	16.0		25
	26	4.0	0.0			1.5	9.5	26		15.0		21.0	14.5		26
	27	3.0	0.0			0.5	10.5	27		16.0		21.5	16.0		27
	28	4.0	0.0			0.0	13.0	28		15.0		20.0	15.0		28
	29	4.0	0.0			0.0	12.5	29		15.0		20.0	14.5		29
	30	4.5	0.0			-------		30		14.0		22.5	14.5		30
	31	7.0	-------			-------		31	-------	17.0	-------	23.5	14.5	-------	31

TOTAL CHECK CARD

Type: T (1)

Water year: 17 – 20

Total value (sum of daily value entries): 21 – 32

Stat Code 00010 Temp.

Stat Code 00003

Remarks

GPO : 1971 O - 442-477

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306240 - BOX ELDER GULCH NEAR RANGELY, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
MAR., 1976										
18...	1215	.01	3.2	40	--	17	5.4	2.7	11	90
MAY										
25...	1345	.57	24	--	--	54	42	51	1.0	310
JUNE										
24...	1045	.08	21	20	30	50	48	59	1.0	276

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 10/29/7
09306240 - BOX ELDER GULCH NEAR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)
MAR., 1976										
18...	0	74	5.5	3.0	.1	.23	.25	.32	30	30
MAY										
25...	0	254	140	5.5	.3	.72	.01	.01	.41	.42
JUNE										
24...	0	226	180	6.0	.3	.31	.00	.00	.28	.28

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 10/29/76
09306240 - BOX ELDER GULCH NEAR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
MAR., 1976										
18...	.83	.35	2.5	95	.13	.00	65	0	7	.1
MAY										
25...	.56	.00	1.7	474	.64	.73	310	53	26	1.3
JUNE										
24...	.01	.01	.03	505	.69	.11	320	98	28	1.4

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306240 - BOX ELDER GULCH NEAR RANGELY, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)
MAR., 1976										
18...	163	8.1	3.0	100	--	34	2.4	--	110	190
MAY										
25...	750	8.1	24.0	12	6.7	4.2	--	--	60	--
JUNE										
24...	850	7.7	14.5	7	--	6.8	--	9	100	1300

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306240 - BOX ELDER GULCH NEAR RANGELY, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	TIME	DIS-SOL-VED SUL-FIDE (S) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
MAR., 1976							
18...	1215	.2	100	.00	2	0	1
JUNE							
24...	1045	1.1	6	.00	11	--	0

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306240 - BOX ELDER GULCH NEAR RANGELY, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELF-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAR., 1976							
18...	0	13	13	10	.0	0	30
JUNE							
24...	0	4	0	20	.0	3	0

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306240 - BOX ELDER GULCH NEAR RANGELY, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
MAR., 1976												
18...	1220	40	50	<1	<4	50	<3	<3	<1	<3	280	5
JUNE												
24...	1050	130	70	<5	<15	50	<10	<10	<5	<20	30	<10

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306240 - BOX ELDER GULCH NEAR RANGELY, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
MAR., 1976											
18...	0	30	3	<3	<0	200	<5	<1	<3.0	40	<5
JUNE											
24...	20	<7	40	<10	<2	920	<10	<7	<10	0	<20

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 10/29/76
09306240 - BOX ELDER GULCH NEAR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
MAR., 1976					
18...	1215	2.3	3.4	13	.7
JUNE					
24...	1045	11	<.4	4.8	<.4

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306240 - BOX ELDER GULCH NEAR RANGELY, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)
MAR., 1976										
18...	1215	.00	.0	.00	.00	.00	.00	.00	.00	.00

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306240 - BOX ELDER GULCH NEAR RANGELY, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
MAR., 1976									
18...	.00	.00	.00	.0	0	.00	.00	.00	.00

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 10/29/76
09306235 - CORRAL GULCH BELOW WATER GULCH, NR RANGELY, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)
NOV., 1975										
18...	1080	8.4	1.5	5	11.0	11	.5	3	100	1800
JAN., 1976										
02...	1100	--	.5	5	--	14	2.5	4	80	1300
MAY										
25...	1050	7.9	23.0	8	7.5	4.6	--	--	90	--
JUNE										
24...	1050	8.1	24.5	4	--	7.4	.3	7	110	1700
JULY										
21...	1000	8.3	30.0	25	6.8	16	.0	--	120	--
AUG.										
19...	1050	7.9	20.0	3	7.6	7.3	--	--	100	--

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WATER QUALITY DATA

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
NOV., 1975										
18...	.00	.01	.00	760	1.03	--	470	120	28	1.7
JAN., 1976										
02...	.02	.00	.06	793	1.08	.11	490	140	27	1.7
MAY										
25...	.01	.00	.03	681	.93	.18	400	120	31	1.8
JUNE										
24...	.01	.02	.03	702	.95	.17	390	120	35	2.1
JULY										
21...	.09	.00	.28	723	.98	.20	410	120	33	2.0
AUG.										
19...	.00	.01	.00	730	.99	.43	440	120	30	1.8

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WATER QUALITY DATA

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)
NOV., 1975										
18...	0	354	280	7.4	.2	.94	.00	.00	.40	.40
JAN., 1976										
02...	0	343	310	11	.3	1.1	.09	.12	.60	.69
MAY										
25...	0	278	270	12	.3	.52	.02	.03	.35	.37
JUNE										
24...	0	267	300	8.0	.3	.28	.02	.03	.40	.42
JULY										
21...	0	294	290	8.8	.3	.53	.05	.06	.79	.84
AUG.										
19...	0	317	280	9.8	.3	.78	.03	.04	.56	.59

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WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV., 1975										
18...	1015	--	20	40	40	90	59	84	.9	431
JAN., 1976										
02...	1300	.05	19	30	30	95	60	84	1.5	418
MAY										
25...	1125	.10	20	--	--	65	58	85	1.4	339
JUNE										
24...	1345	.09	18	20	30	58	58	94	1.5	325
JULY										
21...	1325	.10	22	--	--	69	58	93	2.8	358
AUG.										
19...	1050	.22	19	--	--	81	57	87	1.6	387

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WATER QUALITY DATA

DATE	TIME	DIS-SOL-VED SUL-FIDE (S) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
JAN., 1976								
02...	1300	.0	12	.00	4.0	0	60	7
JUNE								
24...	1345	.5	5	.00	--	8	--	1

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WATER QUALITY DATA

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JAN., 1976							
02...	<15	5	<15	20	.0	2	10
JUNE							
24...	10	5	3	20	.0	4	0

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WATER QUALITY DATA

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
JAN., 1976												
02...	1300	30	60	<3	<15	80	<15	<15	<7	<40	30	<15
JUNE												
24...	1350	50	70	<6	<20	80	<15	<15	<6	<20	<10	<15

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WATER QUALITY DATA

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
JAN., 1976											
02...	20	20	40	<15	<2	1300	<15	<10	<15	10	<40
JUNE											
24...	30	<10	50	<15	<2	1400	<15	<10	<15	0	<30

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WATER QUALITY DATA

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)
JAN., 1976						
02...	1300	<9.4	<.4	5.2	<.4	.08
JUNE						
24...	1345	<9.9	<.4	2.8	<.4	--

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WATER QUALITY DATA

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)
JAN., 1976 02...	1300	.00	.0	.00	.00	.00	.00	.00	.00	.00

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WATER QUALITY DATA

DATE	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN., 1976 02...	.00	.00	.00	.0	0	.00	.00	.00	.00

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WATER QUALITY DATA

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT., 1975											
24...	1300	.56	19	--	10	88	59	130	1.6	511	0
30...	1430	.56	20	--	40	80	63	110	1.6	502	0
NOV.											
18...	1150	.58	20	20	30	87	66	120	1.4	504	0
DEC.											
24...	1100	.50	20	30	20	89	60	110	1.7	512	0
JAN., 1976											
29...	1330	.42	20	10	10	85	63	110	1.5	441	0
FEB.											
18...	1400	.55	20	10	10	83	60	100	1.4	505	0
MAR.											
11...	1145	.35	21	20	<20	91	70	120	1.7	511	0
APR.											
15...	1345	.53	22	--	--	90	69	120	2.4	448	0
MAY											
13...	1045	--	21	--	--	87	65	110	1.5	481	0
JUNE											
25...	1315	.73	19	20	140	76	57	100	1.4	358	0
JULY											
21...	1545	.75	21	--	--	82	55	98	1.7	442	0

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DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT., 1975											
24...	419	200	11	.6	.21	.02	.03	--	--	.03	.02
30...	412	290	10	.5	.26	.05	.06	--	--	.01	.02
NOV.											
18...	413	300	11	.4	.29	.00	.00	.34	.34	.03	.03
DEC.											
24...	420	280	8.5	.4	.26	.02	.03	.19	.21	.03	.03
JAN., 1976											
29...	362	310	10	.4	.34	.04	.05	.36	.40	.00	.01
FEB.											
18...	414	260	9.4	.4	.37	--	--	--	.22	.03	.05
MAR.											
11...	419	300	12	.4	.33	.04	.05	.07	.11	.04	.01
APR.											
15...	367	300	11	.4	.32	.09	.12	--	--	--	.01
MAY											
13...	395	280	12	.4	<.32	.10	.13	.25	.35	.16	.01
JUNE											
25...	294	270	10	.4	.23	.00	.00	.29	.29	.01	.03
JULY											
21...	363	260	11	.4	.18	.03	.04	.89	.92	.04	.00

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DATE	PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT., 1975										
24...	.09	762	1.04	1.15	460	44	38	2.6	1300	8.0
30...	.03	824	1.12	1.25	460	47	34	2.2	1300	8.2
NOV.										
18...	.09	858	1.17	1.34	490	78	35	2.4	1150	7.8
DEC.										
24...	.09	825	1.12	1.11	470	51	34	2.2	1200	7.7
JAN., 1976										
29...	.00	821	1.12	.93	470	110	34	2.2	1200	7.8
FEB.										
18...	.09	787	1.07	1.17	460	42	32	2.0	1300	8.2
MAR.										
11...	.12	872	1.19	.82	520	98	34	2.3	1250	7.7
APR.										
15...	--	837	1.14	1.20	510	140	34	2.3	1300	7.5
MAY										
13...	.49	816	1.11	--	480	90	33	2.2	1200	8.2
JUNE										
25...	.03	714	.97	1.41	430	130	34	2.1	1150	7.4
JULY										
21...	.12	748	1.02	1.51	430	69	33	2.1	1320	7.8

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DATE	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)
OCT., 1975										
24...	9.0	4	9.2	--	--	--	--	5	150	--
30...	9.5	5	7.6	--	--	--	--	5	130	--
NOV.										
18...	8.0	4	12.0	--	--	14	.5	4	140	1900
DEC.										
24...	7.5	4	--	--	--	8.3	.4	4	110	1600
JAN., 1976										
29...	8.5	3	7.7	--	--	14	.3	4	140	2000
FEB.										
18...	.0	4	10.9	--	--	6.7	.3	4	120	1800
MAR.										
11...	9.0	4	10.0	2	2	4.2	.3	6	100	1700
APR.										
15...	12.0	0	7.0	--	--	--	--	--	150	--
MAY										
13...	13.0	0	10.1	--	--	--	--	--	180	--
JUNE										
25...	17.0	3	9.3	220	--	1.7	.4	7	120	1800
JULY										
21...	22.0	12	6.9	--	--	12	1.1	--	120	--

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WATER QUALITY DATA

DATE	TIME	DIS-SOL-VED SUL-FIDE (S) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
OCT., 1975								
24...	1300	.0	--	.00	--	--	100	1
30...	1430	.0	--	.00	--	0	100	0
DEC.								
24...	1100	.1	11	.00	3.0	0	60	0
MAR., 1976								
11...	1145	.0	12	.00	.1	0	60	1
JUNE								
25...	1315	.6	5	.00	--	11	--	1

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DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT., 1975							
24...	4	7	0	10	.0	1	20
30...	0	1	3	10	.0	3	0
DEC.							
24...	<16	4	<16	10	.0	1	20
MAR., 1976							
11...	<20	3	<20	20	.0	2	10
JUNE							
25...	0	6	0	20	.0	3	10

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DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
DEC., 1975												
24...	1100	30	60	<4	<16	110	<16	<16	<8	<40	20	<16
MAR., 1976												
11...	1145	20	60	<4	<25	100	<20	<20	<7	<20	<20	<20
JUNE												
25...	1320	100	60	<7	<20	90	<15	<15	<7	<20	60	<15

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DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
DEC., 1975											
24...	10	30	45	<16	<2	1600	<16	<10	<16	20	<40
MAR., 1976											
11...	20	40	50	<20	<2	1700	<20	<10	<10	10	<30
JUNE											
25...	20	<20	50	<15	<2	1600	<15	<10	<15	20	<30

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WATER QUALITY DATA

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)
DEC., 1975						
24...	1100	<7.4	<.4	4.5	<.4	.05
MAR., 1976						
11...	1145	<8.7	<.4	2.5	1.2	.10
JUNE						
25...	1315	<12	<.4	2.0	.5	--

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WATER QUALITY DATA

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)
JAN., 1976 02...	1415	.00	.0	.00	.00	.00	.00	.00	.00	.00
MAR. 11...	1145	.00	.0	.00	.00	.00	.00	.00	.00	.00

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DATE	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN., 1976									
02...	.00	.00	.00	.0	0	.00	.00	.00	.00
MAR.									
11...	.00	.00	.00	.0	0	.00	.00	.00	.00

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09306244 - CORRAL GULCH AT 84 RANCH, CO.

PROCESS DATE 10/29/76
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WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT., 1975											
24...	1400	.19	17	--	10	110	100	200	3.3	626	0
30...	1545	.19	17	--	60	110	110	180	3.0	627	0
NOV.											
18...	1300	.17	18	20	80	110	100	190	2.4	634	0
DEC.											
25...	1200	.09	18	10	10	110	110	180	2.8	634	0
JAN., 1976											
29...	1500	.01	17	10	20	110	110	190	2.6	638	0
FEB.											
18...	1440	.10	18	10	30	110	100	170	2.7	616	0
MAR.											
11...	1545	.07	20	<20	<30	110	97	170	3.0	596	0
MAY											
13...	1250	--	17	--	--	100	100	190	2.6	572	0
JUNE											
26...	1415	.10	18	20	60	100	110	200	2.9	626	0
JULY											
22...	1305	.02	19	--	--	110	110	190	2.7	575	0

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WATER QUALITY DATA

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT., 1975											
24...	513	520	21	.3	.23	.00	.00	--	--	.01	.01
30...	514	590	19	.3	.32	.02	.03	--	--	.00	.01
NOV.											
18...	520	570	19	.3	.66	.02	.03	.98	1.0	.00	.01
DEC.											
25...	520	550	17	.3	.38	.10	.13	.61	.71	.03	.01
JAN., 1976											
29...	523	610	18	.3	.71	.05	.06	.71	.76	.00	.02
FEB.											
18...	505	510	19	.4	.85	.15	.19	.85	1.0	.05	.01
MAR.											
11...	489	490	16	.3	.68	.08	.10	.88	.96	.06	.03
MAY											
13...	469	520	17	.3	<.04	.04	.05	.42	.46	.85	.00
JUNE											
26...	513	580	18	.3	.09	.00	.00	.42	.42	.02	.03
JULY											
22...	472	580	18	.4	.00	.00	.00	.63	.63	.03	.02

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WATER QUALITY DATA

DATE	PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT., 1975										
24...	.03	1280	1.74	.66	690	170	39	3.3	1800	8.1
30...	.00	1340	1.82	.69	730	210	35	2.9	2000	8.3
NOV.										
18...	.00	1330	1.81	.61	690	170	38	3.2	1700	8.1
DEC.										
25...	.09	1310	1.78	.32	730	210	35	2.9	1700	7.9
JAN., 1976										
29...	.00	1380	1.88	.04	730	210	36	3.1	1750	7.8
FEB.										
18...	.15	1240	1.69	.33	690	180	35	2.8	1900	8.2
MAR.										
11...	.18	1210	1.65	.23	680	190	35	2.9	1700	8.3
MAY										
13...	2.6	1230	1.67	--	660	190	38	3.2	1820	8.2
JUNE										
26...	.06	1340	1.82	.36	710	190	38	3.3	1760	7.4
JULY										
22...	.09	1310	1.78	.07	730	260	36	3.1	1880	8.0

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WATER QUALITY DATA

DATE	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)
OCT., 1975										
24...	9.5	10	--	--	--	--	--	4	190	--
30...	9.0	0	9.0	--	--	--	--	4	170	--
NOV.										
18...	7.0	5	--	--	--	14	.0	3	190	2700
DEC.										
25...	6.0	8	--	--	--	9.6	.3	2	160	2700
JAN., 1976										
29...	6.0	4	5.1	--	--	11	.4	2	180	2800
FEB.										
18...	8.0	15	11.7	--	--	13	.7	2	160	2700
MAR.										
11...	9.0	15	13.4	82	92	13	.3	4	150	2300
MAY										
13...	21.0	5	9.2	--	--	7.4	--	--	40	--
JUNE										
26...	20.5	6	9.5	58	--	9.6	--	6	220	3000
JULY										
22...	23.0	18	8.9	--	--	39	--	--	210	--

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DATE	TIME	DIS-SOL-VED SUL-FIDE (S) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
OCT., 1975								
24...	1400	.0	--	.00	--	--	100	0
30...	1545	.1	--	.00	--	0	100	0
DEC.								
25...	1200	.0	11	.00	2.0	0	100	1
MAR., 1976								
11...	1545	.2	26	.00	.1	0	200	1
JUNE								
26...	1415	.5	6	.01	--	7	--	0

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DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT., 1975							
24...	10	2	3	10	.0	1	0
30...	0	1	3	5	.0	1	0
DEC.							
25...	0	6	2	10	.0	1	40
MAR., 1976							
11...	<25	2	<25	10	.0	2	10
JUNE							
26...	0	6	2	20	.0	1	10

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WATER QUALITY DATA

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
DEC., 1975												
24...	1200	60	90	<5	<25	120	<25	<25	<10	<60	30	<25
MAR., 1976												
11...	1545	<20	200	<5	<35	150	<25	<25	<10	<30	<30	<25
JUNE												
26...	1420	40	100	<10	<40	140	<30	<30	<10	<40	30	<30

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DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
DEC., 1975											
24...	10	80	55	<25	<3	2000	<25	<20	<25	10	<60
MAR., 1976											
11...	10	60	60	<25	<3	2300	<20	<20	<15	10	<40
JUNE											
26...	20	220	60	<30	<4	2500	<30	<20	<30	20	<50

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WATER QUALITY DATA

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)
DEC., 1975						
25...	1200	<19	<.4	7.2	.6	.06
MAR., 1976						
11...	1545	<12	.4	9.5	1.1	.02
JUNE						
26...	1415	22	.6	14	1.2	--

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WATER QUALITY DATA

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)
JAN., 1976										
02...	1500	.00	.0	.00	.00	.00	.00	.00	.00	.00
MAR.										
11...	1545	.00	.0	.00	.00	.00	.00	.00	.00	.00

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WATER QUALITY DATA

DATE	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN., 1976									
02...	.00	.00	.00	.0	0	.00	.00	.00	.00
MAR.									
11...	.00	.00	.00	.0	0	.00	.00	.00	.00

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WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT., 1975											
15...	1000	.92	6.4	--	0	32	120	800	4.3	1790	75
31...	1330	--	5.3	--	120	37	88	640	6.5	1300	82
NOV.											
21...	1130	2.4	8.9	70	70	37	110	850	4.1	1600	182
DEC.											
18...	1000	--	14	0	20	44	130	870	4.2	1680	172
JAN., 1976											
28...	1030	2.0	13	20	20	35	120	850	4.2	1460	283
FEB.											
26...	1100	3.5	14	50	20	39	110	640	4.1	596	478
MAR.											
30...	1000	--	12	110	70	34	100	830	7.0	1380	240
APR.											
09...	1325	2.1	11	--	--	32	110	800	5.0	1580	136
MAY											
25...	1320	--	9.6	--	--	7.4	120	850	4.4	--	--
JUNE											
23...	1010	1.2	8.5	0	20	25	100	940	4.0	1990	17
JULY											
19...	1330	.27	6.8	--	--	19	97	880	5.5	1410	242
AUG.											
12...	1140	1.0	7.3	--	--	21	100	890	4.9	1470	262

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WATER QUALITY DATA

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT., 1975											
15...	1590	580	130	2.1	.66	.03	.04	--	--	.02	.00
31...	1200	510	110	1.8	.56	.01	.01	--	--	.28	.01
NOV.											
21...	1620	560	150	2.4	1.5	.00	.00	.63	.63	.00	.01
DEC.											
18...	1660	660	130	2.4	1.4	.22	.28	.78	1.0	.11	.07
JAN., 1976											
28...	1670	570	150	2.5	1.6	.27	.35	.73	1.0	.16	.09
FEB.											
26...	1280	520	130	2.0	1.2	.23	.30	.67	.90	.46	.07
MAR.											
30...	1530	570	140	2.4	1.0	.14	.18	--	--	.12	.09
APR.											
09...	1520	630	140	2.6	.51	.00	.00	.47	.47	.24	.03
MAY											
25...	--	620	140	2.6	.01	.03	.04	.41	.44	.07	.00
JUNE											
23...	1660	630	150	2.8	.01	.01	.01	.38	.39	.02	.01
JULY											
19...	1560	590	160	2.8	.00	.01	.01	.99	1.0	.02	.00
AUG.											
12...	1640	520	200	3.0	.01	.00	.00	.60	.60	.09	.01

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WATER QUALITY DATA

DATE	PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT., 1975										
15...	.06	2640	3.59	6.56	570	0	75	15	4000	8.6
31...	.86	2130	2.90	--	450	0	75	13	3500	8.8
NOV.										
21...	.00	2700	3.67	18.0	550	0	77	16	5000	8.4
DEC.										
18...	.34	2870	3.90	--	650	0	74	15	4000	8.5
JAN., 1976										
28...	.49	2760	3.75	15.2	590	0	76	15	3880	8.7
FEB.										
26...	1.4	2240	3.05	21.4	550	0	72	12	2300	8.7
MAR.										
30...	.37	2620	3.56	--	500	0	78	16	3700	8.7
APR.										
09...	.74	2650	3.60	15.3	530	0	76	15	4000	8.6
MAY										
25...	.21	--	--	--	510	--	78	16	3830	8.8
JUNE										
23...	.06	2860	3.89	9.50	480	0	81	19	4000	8.9
JULY										
19...	.06	2700	3.67	1.97	450	0	81	18	3780	8.9
AUG.										
12...	.28	2730	3.71	7.37	460	0	80	18	3900	8.5

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DATE	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)
OCT., 1975										
15...	1.5	10	--	--	--	--	--	5	690	--
31...	10.0	80	--	--	--	--	--	5	610	--
NOV.										
21...	.0	13	12.5	B36	10000	14	.2	4	750	3500
DEC.										
18...	.0	4	12.5	--	--	7.7	--	4	690	3800
JAN., 1976										
28...	.0	5	12.2	--	--	6.9	--	4	690	3100
FEB.										
26...	1.0	20	10.9	B600	B170	11	2.4	6	580	3200
MAR.										
30...	1.0	10	11.1	--	--	12	1.1	--	780	350
APR.										
09...	16.0	20	8.5	420	280	--	1.0	--	680	--
MAY										
25...	27.0	22	--	460	--	4.3	--	--	750	--
JUNE										
23...	17.5	20	6.0	--	--	6.4	.3	--	~~70~~ 820 - [illegible] analysis	3300
JULY										
19...	28.0	22	5.6	--	--	43	--	--	860	--
AUG.										
12...	24.0	17	6.7	--	--	6.1	.8	--	790	--

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DATE	TIME	DIS-SOL-VED SUL-FIDE (S) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
OCT., 1975								
15...	1000	.2	--	.00	--	0	200	0
31...	1330	.0	--	.00	--	--	100	1
DEC.								
18...	1000	.0	17	.00	2.0	0	600	1
MAR., 1976								
30...	1000	.6	15	.00	.3	0	20	1
JUNE								
23...	1010	.0	60	.00	--	0	100	0

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DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELF-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT., 1975							
15...	0	0	0	150	.1	2	10
31...	4	5	1	100	.0	3	2
DEC.							
18...	0	4	3	160	.0	2	0
MAR., 1976							
30...	<50	6	<50	150	.0	1	0
JUNE							
23...	0	0	0	180	--	--	10

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WATER QUALITY DATA

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
DEC., 1975												
18...	1005	60	300	<10	<50	700	<40	<45	<10	<50	70	<45
MAR., 1976												
30...	1000	110	20	<10	<70	780	<50	<50	<20	<70	70	<50
JUNE												
23...	1010	0	100	<20	<70	70	0	<50	<20	<70	20	0

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
DEC., 1975											
18...	160	<50	70	<45	<5	3600	<50	<30	<40	10	<100
MAR., 1976											
30...	150	<30	80	<50	<5	350	<50	<20	<40	0	<100
JUNE											
23...	180	0	20	<50	<5	3300	<50	<30	<50	10	<100

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 10/29/76
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO. DISTRICT CODE 08

WATER QUALITY DATA

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
DEC.. 1975					
18...	1000	<25	6.0	12	2.7
MAR.. 1976					
30...	1000	<24	96	14	39
JUNE					
23...	1010	50	1.1	<6.2	1.2

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)
DEC., 1975										
18...	1000	.00	.0	.00	.00	.00	.00	.00	.00	.00
MAR., 1976										
30...	1000	.00	.0	.00	.00	.00	.00	.00	.00	.00

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

PROCESS DATE 10/29/76
DISTRICT CODE 08

WATER QUALITY DATA

DATE	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC., 1975									
18...	.00	.00	.00	.0	0	.00	.00	.00	.00
MAR., 1976									
30...	.00	.00	.00	.0	0	.00	.00	.00	.00

ALLUVIAL AQUIFERS

SECTION 1.2.3

WET CHEMICAL AND SPECTROGRAPHIC ANALYSES, ALLUVIAL TEST HOLES

EXPLANATION -- WATER QUALITY COMPUTER OUTPUT SHEETS

1. Code Hole Description Data

Job # 741-40

Assigned project number for Rio Blanco Oil Shale Project by Wright Water Engineers, Inc

X = Distance in feet, north of baseline 7200 feet Datum of the Colorado State Coordinate System

Y = Distance, in feet, east of the baseline 7200 foot Datum of the Colorado State Coordinate System

Z = Elevation in feet above sea of the core hole at ground surface

Date Drill Compl.

The date when drilling was completed on the Core Hole.

Conv. to Monitor

Date the Core Hole was converted to a Monitor Hole.

Aquifer 1:

Depth in feet to the top and bottom of the upper aquifer from G.L.

Aquifer 2:

Depth in feet to the top and bottom of the lower aquifer from G.C.

2. Sample Description Data

Date

Date water sample was collected.

Depth

Depth for Method 1: depth sample was collected during drilling.

Depth for Method 2: depth sample was collected during pumping test.

Depth for Method 3: the static water level of the hole when sampled.

Temp.

Field temperature of sample (^{o}F)

Lab Num.

Designation number assigned by the analyzing laboratory.

Method

0. Drilling soap sample
1. Drilling program sample
2. Pumping test program sample
3. Monitoring program sample
3A. Monitoring program sample, not representative of aquifer conditions

Aquif. Loc.

U Sample from upper aquifer during drilling, pumping or monitoring
L Sample from lower aquifer during pumping test or monitoring
C Sample combination of upper and lower aquifer during drilling
A Sample from alluvial aquifer

3. Wet -- Wet Chemical Analysis

Values are in milligrams per liter, except for:

Gross Alpha-- picocuries per liter
Gross Beta -- picocuries per liter
pH -- standard pH values
Conductance-- micromhos per centimeter
Negative values indicate less than minimum detectable limit indicated
0.0 value - constituent not tested for
**** - not analyzed for using wet chemical analysis

4. Spectrographic - spectrographic analysis of 67 elements

All values are in milligrams per liter
0.0 means less than minimum detectable amount
99999.000 means major amount
***** is used in Water Quality Analysis Summary to indicate an element has not been analyzed above the minimum detectable limit

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 149963.09 Y- 223340.39 Z- 6986.42
DATE DRILL COMPL-120475 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	33175	41575	42975	51475	52975	61175	63075	71575	80575	82775	101075	112075
DEPTH	0.0	20.70	21.04	21.74	21.85	22.10	22.36	24.88	25.46	24.28	24.80	23.70
TEMP	47.3	47.1	49.1	47.8	49.3	49.6	52.3	50.0	50.0	54.1	51.8	48.2
LAB ID												
LAB NUM	9023	184	185	436	437	898	2260	1542	2048	2764	3442	4656
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A	A
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.400	-0.100	0.200	0.200	0.400	0.0	0.300	-0.100	0.500	-0.100	0.800
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	480.000	490.000	455.000	460.000	410.000	430.000	435.000	445.000	470.000	470.000	450.000	470.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.030
CALCIUM	77.000	90.000	64.000	80.000	120.000	98.000	130.000	98.000	90.000	44.000	140.000	140.000
CARBONATE	-0.100	-0.100	-0.100	-0.100	24.000	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
CHLORIDE	12.000	14.000	9.600	17.000	7.000	14.000	6.800	6.900	8.200	12.000	14.000	6.700
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100	0.100	-0.100	0.100	0.300
FLUORIDE	0.200	0.400	0.400	0.400	0.400	0.400	0.200	0.400	0.600	0.400	0.700	0.400
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	4.800	0.300	9.100	15.000	8.300	0.300	12.000	9.500	8.100	0.600	7.900
LEAD	0.020	0.100	0.070	0.500	0.200	0.100	0.100	0.040	0.090	0.500	0.040	0.200
MAGNESIUM	45.000	47.000	35.000	56.000	7.300	52.000	29.000	57.000	59.000	85.000	37.000	26.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
NITRATE	3.900	4.800	5.200	4.700	0.200	4.500	3.900	3.900	4.900	3.500	3.100	2.500
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.010	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.100	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	27.000	23.000	22.000	26.000	28.000	26.000	27.000	30.000	29.000	29.000	31.000	29.000
SODIUM	160.000	145.000	155.000	75.000	190.000	100.000	115.000	90.000	145.000	130.000	110.000	130.000
SULFATE	280.000	275.000	270.000	150.000	300.000	250.000	280.000	250.000	330.000	285.000	280.000	280.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.200	-0.100	0.200	0.300	0.300	0.300	0.600	0.200	0.800	0.200	0.600
GROS ALPHA	0.0	6.300	7.400	5.600	5.000	6.000	4.800	4.100	6.000	5.100	5.500	15.000
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.000	0.0	0.0
HARDNESS	375.000	420.000	355.000	430.000	330.000	460.000	450.000	480.000	470.000	460.000	500.000	450.000
PH	6.400	6.400	6.400	6.800	6.100	6.000	6.800	6.200	6.800	6.800	6.300	6.200
CONDUCTANC	990.000	1120.000	1050.000	1120.000	1065.000	1140.000	1440.000	1104.000	1056.000	1130.000	960.000	1110.000
DIS SOLIDS	840.000	840.000	810.000	640.000	890.000	760.000	800.000	765.000	905.000	820.000	840.000	840.000
MANGANESE	-0.050	-0.050	1.900	0.100	0.400	0.500	0.100	0.200	1.000	0.800	0.200	4.000
ALKALINITY	395.000	400.000	375.000	395.100	360.000	350.000	355.000	365.000	385.000	385.000	370.000	385.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	1.100	2.900	1.900	-0.010	-0.010	0.100	0.070	-0.010	0.020	9.600	-0.010	-0.100
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.100	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.030	0.040	0.020	0.020	0.040	0.060	0.010	0.030	0.030	0.050	0.010	0.100
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	19.000	9.000	14.000	15.000	35.000	8.000	28.000	28.000	18.000	30.000	63.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.500	0.100	0.050	0.100	0.050	0.100	0.100	0.100	0.100	0.010	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.001	0.001	0.001	0.010	0.0	0.0	0.001
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.500	0.200	0.500	0.200	0.500	0.200	0.500	0.500	0.500	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.001	0.001	0.010	0.010	0.010	0.020	0.001	0.001	0.010	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.020	0.050	0.050	0.010	0.100	0.050	0.050	0.020	0.050	0.010	0.050	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.0
LITHIUM	0.010	0.001	0.001	0.0	0.001	0.001	0.0	0.010	0.010	0.0	0.001	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	5.000	5.000	99999.000
MANGANESE	0.010	0.005	0.010	0.001	0.010	0.001	0.001	0.050	0.001	0.001	0.001	0.020
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.050	0.0	0.005	0.001	0.010	0.002	0.0	0.001	0.0	0.0	0.001	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	1.000	2.000	0.100	1.000	0.100	1.000	1.000	1.000	1.000	1.000	0.500
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.100	0.100	0.0	0.0	0.100	0.300	0.0	0.100	0.300	0.0	0.200	0.200
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	20.000	5.000	5.000	2.000	5.000	2.000	2.000	10.000	2.000	5.000	5.000	2.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0
SODIUM	99999.000	5.000	10.000	2.000	10.000	5.000	10.000	99999.000	99999.000	99999.000	99999.000	2.000
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.010	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.0	0.001	0.010	0.010	0.005	0.001	0.020	0.001	0.005	0.0	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 149963.09 Y- 223340.39 Z- 6986.42
DATE DRILL COMPL-120475 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	13	14	15	16	17	18	19	20	21	22
DATE	121275	12876	21776	41376	52176	62176	73176	82976	92476	111476
DEPTH	22.23	20.29	18.73	15.15	21.31	22.17	24.38	34.57	27.38	22.64
TEMP	48.5	46.0	44.6	43.0	47.3	44.0	52.0	49.8	46.0	48.5
LAB ID										
LAB NUM	5235	6299	6754	8368	9524	641	1502	2138	3539	4124
METHOD	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A
WET										
ALUMINUM	0.0	0.0	0.0	-0.100	0.0	0.0	0.0	0.0	0.0	-0.100
AMMONIA	-0.100	-0.100	1.400	0.280	0.200	0.0	0.0	0.200	0.0	0.0
ARSENIC	-0.010	-0.100	-0.100	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
BICARBONAT	470.000	445.000	450.000	360.000	425.000	415.000	410.000	415.000	440.000	490.000
CADMIUM	0.400	0.010	0.020	0.020	-0.010	0.0	0.0	0.0	0.0	-0.010
CALCIUM	88.000	67.000	80.000	120.000	120.000	87.000	90.000	81.000	83.000	110.000
CARBONATE	-0.100	-0.100	-0.100	21.000	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
CHLORIDE	9.800	5.400	1.300	7.000	20.000	9.900	9.900	5.700	9.600	8.200
CHROMIUM	-0.010	-0.010	-0.010	0.100	-0.010	0.0	0.0	0.0	0.0	-0.010
COPPER	0.500	0.300	0.300	0.300	-0.100	0.0	0.0	0.0	0.0	-0.100
FLUORIDE	0.400	0.200	0.300	0.400	0.400	0.200	0.300	0.200	0.400	0.200
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	9.000	7.500	15.000	0.200	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050
LEAD	0.100	0.200	0.080	0.300	0.020	0.0	0.0	0.0	0.0	0.020
MAGNESIUM	60.000	67.000	39.000	41.000	39.000	51.000	57.000	66.000	56.000	31.000
MERCURY	-0.001	-0.001	-0.001	-0.001	-0.001	0.0	0.0	0.0	0.0	0.001
NITRATE	3.100	3.200	4.400	1.100	3.900	12.000	3.300	2.500	0.0	0.0
PHOSPHATE	-0.100	-0.100	0.100	-0.100	-0.100	0.100	-0.100	0.200	0.200	0.100
POTASSIUM	0.0	0.0	0.0	3.500	-1.000	8.000	2.000	4.000	5.000	3.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
SIL DIOXID	26.000	29.000	27.000	25.000	25.000	28.000	29.000	17.000	30.000	28.000
SODIUM	125.000	140.000	180.000	90.000	110.000	145.000	125.000	94.000	130.000	150.000
SULFATE	260.000	315.000	295.000	285.000	285.000	300.000	335.000	350.000	310.000	325.000
SULFIDE	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0	0.0	-0.100
ZINC	0.500	0.700	0.300	0.800	-0.100	0.0	0.0	0.0	0.0	-0.100
GROS ALPHA	10.000	24.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	11.000	18.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	470.000	440.000	360.000	0.0	455.000	430.000	460.000	0.0	440.000	405.000
PH	6.100	6.400	6.400	6.300	6.000	6.100	6.600	0.0	6.400	6.300
CONDUCTANC	1085.000	1177.000	1100.000	1040.000	1160.000	1070.000	1180.000	1130.000	1100.000	1800.000
DIS SOLIDS	810.000	780.000	910.000	700.000	820.000	945.000	740.000	800.000	780.000	775.000
MANGANESE	3.300	2.300	1.800	0.800	-0.050	-0.050	-0.050	0.0	-0.050	-0.050
ALKALINITY	385.000	365.000	370.000	310.000	350.000	340.000	335.000	340.000	360.000	400.000
CYANIDE	0.020	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
BORON	-0.100	0.300	0.100	2.200	0.100	0.100	0.0	0.600	0.100	0.200
BARIUM	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILVER	0.010	0.020	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.080	0.090	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	-0.100	0.100	0.0	0.0	0.0	0.0	-0.100
DOC	50.000	7.000	0.0	4.600	0.0	0.0	5.000	0.0	10.000	0.0
NITRITE-N	0.0	0.0	0.0	-0.020	-0.100	-0.100	-0.010	0.0	0.600	19.000
BROMIDE	0.0	0.0	0.0	0.800	0.0	0.0	0.0	0.0	0.0	0.200

SAMPLES	13	14	15	16	17	18	19	20	21	22
C.O.D.	0.0	0.0	0.0	5.000	16.000	0.0	0.0	0.0	0.0	14.900
PHENOLS	0.0	0.0	0.0	-0.001	-0.001	0.0	0.0	0.0	0.0	0.013
KJELDAHL N	0.0	0.0	0.0	0.300	2.000	3.400	-0.100	2.000	2.700	3.400
BERYLLIUM	0.0	0.0	0.0	0.0	0.100	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.000
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100	0.100	-0.100	-0.100
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.900	-0.100	0.0	2.000	0.400
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	3.000	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	250.000	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	40.000	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.800
SPECTROGRAPHIC										
ALUMINUM	1.000	2.000	0.500	0.0	0.100	0.0	0.010	0.0	0.0	0.010
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.001	0.050	0.010	0.0	0.0	0.0	0.010	0.0	0.0	0.010
BERYLIUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.010	0.500	0.0	0.200	0.0	0.200	0.0	0.0	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	0.0	99999.000	0.0	99999.000	0.0	0.0	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.050	0.010	0.0	0.010	0.0	0.001	0.0	0.0	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.500	2.000	0.500	0.0	0.010	0.0	0.020	0.0	0.0	0.010
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.100	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.001	0.001	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	0.0	99999.000	0.0	99999.000	0.0	0.0	99999.000
MANGANESE	0.100	0.500	0.050	0.0	0.010	0.0	0.010	0.0	0.0	0.001
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.010	0.0	0.010	0.0	0.020	0.0	0.0	0.050
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16	17	18	19	20	21	22
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.010	0.010	0.0	0.100	0.0	0.010	0.0	0.0	0.010
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	10.000	5.000	0.0	5.000	0.0	5.000	0.0	0.0	2.000
SILVER	0.001	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	5.000	5.000	5.000	0.0	5.000	0.0	5.000	0.0	0.0	99999.000
STRONTIUM	0.100	0.100	0.100	0.0	0.100	0.0	0.100	0.0	0.0	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.100	0.010	0.0	0.001	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 152023.39 Y- 218255.72 Z- 6929.06
DATE DRILL COMPL-120475 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	41575	42975	51475	52975	61175	63075	71575	80575	82875	100975	112175
DEPTH	37.14	39.06	38.92	37.88	30.72	29.00	24.95	29.82	31.31	31.99	35.33	36.81
TEMP	46.2	47.8	57.2	50.5	49.6	51.8	52.0	51.4	50.6	48.0	47.7	46.9
LAB ID												
LAB NUM	9024	186	187	438	439	899	2261	1543	2049	2765	3443	4657
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A	A
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	1.000	0.600	0.200	0.900	0.200	0.400	0.0	0.200	-0.100	0.200	-0.100	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	495.000	510.000	510.000	440.000	370.000	380.000	435.000	450.000	460.000	460.000	430.000	440.000
CADMIUM	-0.010	-0.010	-0.010	0.030	0.010	0.010	0.040	0.020	-0.010	-0.010	-0.010	0.020
CALCIUM	64.000	90.000	60.000	85.000	85.000	110.000	80.000	88.000	77.000	39.000	90.000	110.000
CARBONATE	-0.100	-0.100	-0.100	15.000	36.000	27.000	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
CHLORIDE	8.300	14.000	11.000	14.000	14.000	14.000	8.200	34.000	9.500	15.000	21.000	16.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	-0.010	-0.100	0.100	-0.100	-0.100	0.300	0.100	-0.100	0.100
FLUORIDE	0.300	0.400	0.0	0.400	0.300	0.300	0.200	0.400	0.600	0.400	0.700	0.300
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	-0.050	3.100	9.200	28.000	6.500	8.300	15.800	3.100	8.800	0.900	0.300
LEAD	0.040	0.070	0.200	0.200	0.300	0.200	0.060	0.070	0.200	0.300	0.060	0.200
MAGNESIUM	40.000	26.000	35.000	16.000	31.000	35.000	60.000	52.000	56.000	71.000	57.000	32.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
NITRATE	1.000	5.100	3.400	5.000	0.100	4.200	4.900	3.400	3.300	3.400	3.700	2.200
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	33.000	25.000	27.000	29.000	27.000	27.000	32.000	31.000	27.000	30.000	29.000	31.000
SODIUM	160.000	160.000	175.000	190.000	140.000	100.000	80.000	110.000	110.000	120.000	90.000	100.000
SULFATE	215.000	205.000	145.000	220.000	220.000	190.000	195.000	200.000	230.000	200.000	200.000	190.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.100	0.400	0.300	0.600	0.200	0.200	0.800	0.200	0.300	0.100	0.300
GROS ALPHA	0.0	13.000	2.800	4.700	4.900	1.400	7.400	2.500	8.100	7.100	8.400	13.000
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.000	0.0	0.0
HARDNESS	325.000	330.000	290.000	280.000	340.000	420.000	445.000	430.000	425.000	390.000	460.000	410.000
PH	6.500	6.400	6.400	6.700	6.000	6.200	7.000	6.800	6.600	6.800	6.400	6.300
CONDUCTANC	860.000	1045.000	950.000	1000.000	980.000	1150.000	1150.000	1020.000	943.400	960.000	905.000	960.000
DIS SOLIDS	760.000	770.000	760.000	800.000	760.000	700.000	680.000	755.000	740.000	710.000	700.000	700.000
MANGANESE	0.120	1.900	1.300	2.500	1.500	1.000	0.300	5.000	0.080	8.000	0.050	5.400
ALKALINITY	405.000	420.000	420.000	372.000	329.000	332.000	355.000	370.000	375.000	375.000	350.000	360.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	1.500	2.400	3.000	-0.010	0.300	0.030	3.500	-0.010	2.000	0.500	2.100	-0.100
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.010	-0.010	-0.010	-0.010	0.020	-0.010
NICKEL	0.050	0.080	0.000	0.060	0.060	0.070	0.010	0.090	0.010	0.080	0.040	0.200
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOC	0.0	41.000	100.000	7.000	8.000	15.000	39.000	30.000	38.000	5.000	250.000	292.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.200	0.100	0.100	0.050	0.010	0.050	1.000	0.050	0.050	0.050	0.200
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.200	0.500	0.200	0.500	0.500	0.500	0.500	0.200	0.500	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.001	0.010	0.005	0.010	0.010	0.010	0.001	0.005	0.005	0.020
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.050	0.020	0.100	0.050	0.010	0.020	0.050	0.050	0.050	0.020	0.200
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001
LITHIUM	0.100	0.0	0.0	0.001	0.001	0.0	0.010	0.010	0.010	0.001	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
MANGANESE	0.010	0.010	0.001	0.010	0.001	0.001	0.005	0.050	0.005	0.005	0.005	0.050
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.001	0.001	0.001	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.500	1.000	1.000	0.100	1.000	0.100	1.000	1.000	1.000	0.100	0.100	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.100	0.0	0.0	0.100	0.0	0.0	0.0	0.500	0.0	0.800	0.400
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	5.000	2.000	5.000	5.000	2.000	10.000	5.000	5.000	5.000	5.000
SILVER	0.000	0.0	0.0	0.000	0.0	0.000	0.0	0.0	0.0	0.000	0.0	0.001
SODIUM	99999.000	5.000	5.000	5.000	10.000	2.000	10.000	99999.000	10.000	2.000	10.000	5.000
STRONTIUM	0.0	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
TITANIUM	0.010	0.001	0.001	0.010	0.001	0.010	0.0	0.001	0.001	0.005	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.0	0.0	0.001	0.001	0.0	0.001	0.0	0.0	0.0	0.001
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 152023.39 Y- 218255.72 Z- 6929.06
DATE DRILL COMPL-120475 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	13	14	15	16	17	18	19	20
DATE	121275	12876	21876	52176	62376	82976	92476	111476
DEPTH	37.37	38.21	38.41	33.15	29.02	35.77	38.10	38.27
TEMP	46.4	46.4	45.7	47.5	50.0	49.7	48.0	47.0
LAB ID								
LAB NUM	5236	6300	6759	9525	642	2139	3540	4125
METHOD	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A
WET								
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
AMMONIA	0.600	1.700	6.400	0.200	0.0	0.600	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	-0.010
BICARBONAT	450.000	445.000	450.000	390.000	395.000	420.000	390.000	465.000
CADMIUM	0.050	0.050	0.050	0.060	0.0	0.0	0.0	0.010
CALCIUM	80.000	81.000	74.000	80.000	77.000	73.000	63.000	92.000
CARBONATE	-0.100	-0.100	-0.100	30.000	-0.100	-0.100	-0.100	-0.100
CHLORIDE	22.000	9.400	16.000	23.000	16.000	7.100	12.000	9.600
CHROMIUM	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	-0.010
COPPER	1.000	0.300	0.500	-0.100	0.0	0.0	0.0	-0.100
FLUORIDE	0.400	0.200	0.300	0.300	0.200	0.200	0.300	0.200
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	8.600	2.900	17.000	0.300	-0.050	-0.050	-0.050	-0.050
LEAD	0.100	0.200	0.200	0.090	0.0	0.0	0.0	0.010
MAGNESIUM	55.000	61.000	38.000	26.000	40.000	70.000	63.000	38.000
MERCURY	-0.001	-0.001	-0.001	-0.001	0.0	0.0	0.0	0.001
NITRATE	4.200	2.200	4.000	4.000	3.300	2.600	0.0	0.0
PHOSPHATE	-0.100	0.100	0.100	-0.100	0.100	0.100	0.200	-0.100
POTASSIUM	0.0	0.0	0.0	1.400	7.000	4.000	3.000	2.700
SELENIUM	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	-0.010
SIL DIOXID	27.000	33.000	27.000	22.000	26.000	16.000	28.000	26.000
SODIUM	105.000	80.000	150.000	160.000	100.000	72.000	66.000	110.000
SULFATE	200.000	190.000	210.000	200.000	210.000	200.000	210.000	235.000
SULFIDE	0.0	0.0	0.0	-0.100	0.0	0.0	0.0	-0.100
ZINC	0.800	0.800	0.700	0.100	0.0	0.0	0.0	-0.100
GROS ALPHA	4.300	12.000	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	11.000	30.000	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	420.000	450.000	340.000	310.000	380.000	0.0	415.000	375.000
PH	6.100	6.200	6.300	-6.000	6.500	6.800	6.800	6.000
CONDUCTANC	875.000	1058.000	1050.000	1050.000	960.000	980.000	980.000	1180.000
DIS SOLIDS	720.000	700.000	780.000	875.000	820.000	670.000	650.000	670.000
MANGANESE	7.000	9.100	8.000	-0.050	-0.050	0.0	-0.050	0.200
ALKALINITY	370.000	365.000	370.000	345.000	325.000	345.000	320.000	880.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	-0.010
BORON	0.100	-0.100	0.200	0.200	0.200	0.100	0.100	0.200
BARIUM	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0	0.0
SILVER	0.010	0.050	0.050	0.0	0.0	0.0	0.0	0.0
NICKEL	0.200	0.200	0.100	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	-0.100	0.0	0.0	0.0	-0.100
DOC	138.000	8.000	0.0	0.0	0.0	0.0	8.000	0.0
NITRITE-N	0.0	0.0	0.0	-0.100	-0.100	0.0	0.500	22.000
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100

SAMPLES	13	14	15	16	17	18	19	20
C.O.D.	0.0	0.0	0.0	85.000	0.0	0.0	0.0	30.700
PHENOLS	0.0	0.0	0.0	-0.001	0.0	0.0	0.0	0.002
KJELDAHL N	0.0	0.0	0.0	2.000	8.800	2.700	2.700	0.700
BERYLLIUM	0.0	0.0	0.0	0.600	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.200
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100	-0.100
AMMONIA-N	0.0	0.0	0.0	0.0	1.900	0.0	-0.100	0.400
DIS-ORG C	0.0	0.0	0.0	0.0	2.000	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.900
SPECTROGRAPHIC								
ALUMINUM	1.000	2.000	1.000	2.000	0.0	0.0	0.0	0.020
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.001	0.050	0.010	0.010	0.0	0.0	0.0	0.010
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.010	0.500	0.500	0.0	0.0	0.0	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.020	0.020	0.020	0.020	0.0	0.0	0.0	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	1.000	1.000	2.000	0.0	0.0	0.0	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.010	0.010	0.020	0.0	0.0	0.0	0.001
LITHIUM	0.001	0.0	0.010	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	0.0	0.0	0.0	99999.000
MANGANESE	0.100	0.500	0.[illegible]0	0.200	0.0	0.0	0.0	0.100
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.0	0.010	0.020	0.0	0.0	0.0	0.050
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16	17	18	19	20
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.010	0.500	2.000	0.0	0.0	0.0	0.010
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	5.000	10.000	0.0	0.0	0.0	5.000
SILVER	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.010
SODIUM	5.000	1.000	5.000	10.000	0.0	0.0	0.0	99999.000
STRONTIUM	0.100	0.100	0.100	0.100	0.0	0.0	0.0	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.010	0.100	0.100	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.005	0.010	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 172979.34 Y- 231259.80 Z- 6463.95
DATE DRILL COMPL-120575 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	41575	42975	51475	52975	61175	63075	71575	80575	83075	101075	112075
DEPTH	0.0	48.38	47.41	46.05	44.41	42.60	40.47	44.20	45.05	42.83	43.82	44.29
TEMP	48.2	47.9	50.0	51.8	56.3	51.8	53.6	56.8	52.2	53.6	47.3	46.4
LAB ID												
LAB NUM	9025	235	236	440	441	900	2262	1544	2050	2766	3444	4658
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A	A
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	-0.100	0.200	0.400	0.600	0.300	0.400	0.0	0.500	0.300	0.700	1.100	0.300
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	675.000	650.000	680.000	660.000	630.000	570.000	615.000	650.000	650.000	675.000	650.000	680.000
CADMIUM	-0.010	0.010	-0.010	0.020	0.030	0.070	0.020	0.090	-0.010	-0.010	-0.010	0.010
CALCIUM	77.000	190.000	140.000	170.000	210.000	150.000	160.000	125.000	135.000	58.000	140.000	130.000
CARBONATE	-0.100	-0.100	-0.100	18.000	6.000	24.000	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
CHLORIDE	19.000	19.000	23.000	27.000	21.000	27.000	12.000	30.000	14.000	11.000	21.000	26.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	0.100	-0.100	-0.100	0.100	-0.100	-0.100	-0.100	0.500	-0.100	2.400
FLUORIDE	0.200	0.300	0.200	-0.100	0.200	0.200	0.100	0.200	0.600	0.200	0.500	0.200
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	6.300	6.300	4.300	5.000	6.000	15.000	8.800	7.700	8.500	6.400	7.200
LEAD	0.040	0.200	0.300	0.300	0.400	0.100	0.100	0.700	0.080	0.800	0.100	1.000
MAGNESIUM	115.000	67.000	90.000	35.000	3.700	84.000	81.000	95.000	105.000	145.000	110.000	93.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.002	-0.002	-0.002	-0.002	-0.002	0.002
NITRATE	1.600	0.300	4.000	12.000	13.000	19.000	17.000	20.000	21.000	16.500	17.000	15.000
PHOSPHATE	-0.100	0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	40.000	32.000	33.000	34.000	37.000	36.000	37.000	41.000	39.000	38.000	35.000	36.000
SODIUM	255.000	210.000	240.000	300.000	290.000	260.000	270.000	230.000	290.000	240.000	210.000	280.000
SULFATE	570.000	580.000	560.000	540.000	540.000	600.000	650.000	550.000	720.000	600.000	610.000	600.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.030	0.300	0.100	0.400	0.500	3.200	1.300	1.400	0.200	0.0	0.400	1.200
GROS ALPHA	0.0	15.000	15.000	11.000	17.000	7.600	8.100	14.000	20.000	21.000	13.000	30.000
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	8.000	12.000	0.0	35.000	0.0	0.0
HARDNESS	670.000	750.000	720.000	570.000	540.000	720.000	730.000	700.000	765.000	745.000	810.000	710.000
PH	6.400	6.400	6.400	6.800	6.100	6.200	7.000	7.200	7.200	6.000	6.000	6.300
CONDUCTANC	1890.000	1930.000	1875.000	1860.000	1940.000	2070.000	2220.000	1764.000	2252.000	1620.000	1590.000	1620.000
DIS SOLIDS	1410.000	1420.000	1420.000	1460.000	1430.000	1490.000	1540.000	1420.000	1640.000	1450.000	1470.000	1510.000
MANGANESE	0.330	1.000	1.200	1.700	3.500	2.800	4.000	4.500	5.800	15.000	0.100	9.800
ALKALINITY	555.000	530.000	560.000	555.000	525.000	490.000	505.000	535.000	530.000	550.000	530.000	560.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.400	3.700	4.200	27.000	0.200	0.070	0.400	0.500	1.900	1.000	0.600	0.100
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	0.070	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.020	0.040	0.030	0.050	0.080	0.100	0.040	0.100	0.060	0.020	0.100	0.200
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOC	0.0	63.000	32.000	32.000	32.000	34.000	70.000	50.000	88.000	42.000	115.000	96.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.200	0.100	0.010	0.010	0.100	0.010	0.100	0.500	0.100	0.050	0.100	0.500
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.001	0.0	0.001	0.0	0.001	0.001	0.0	0.0	0.010
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.500	0.500	0.200	0.200	0.200	0.200	0.200	0.500	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.010	0.001	0.010	0.005	0.001	0.010	0.010	0.010	0.010	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.100	0.050	0.100	0.020	0.050	0.050	0.050	0.050	0.050	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.001
LITHIUM	0.0	0.010	0.010	0.001	0.001	0.001	0.001	0.010	0.010	0.010	0.0	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
MANGANESE	0.100	0.001	0.005	0.010	0.010	0.001	0.010	0.100	0.005	0.010	0.010	0.050
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.050	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.005	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.100	0.500	0.010	0.500	1.000	1.000	0.500	1.000	1.000	0.100	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.500	0.700	0.200	0.100	0.400	0.400	0.500	0.100	0.400	0.0	1.000	0.600
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	2.000	5.000	2.000	5.000	5.000	5.000	5.000	5.000	2.000	5.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.0
SODIUM	99999.000	5.000	10.000	10.000	10.000	5.000	10.000	99999.000	10.000	10.000	2.000	5.000
STRONTIUM	0.0	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.001	0.0	0.010	0.010	0.0	0.0	0.001	0.001	0.001	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.010	0.0	0.001	0.0	0.001
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 172979.34 Y- 231259.80 Z- 6463.95
DATE DRILL COMPL-120575 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	13	14	15	16	17	18	19	20	21	22
DATE	121275	12876	21876	41376	52176	62376	73176	82976	92476	111576
DEPTH	44.56	44.54	44.71	45.32	44.23	43.83	44.78	43.86	45.49	43.13
TEMP	49.0	48.2	47.3	49.5	49.1	52.0	53.0	48.5	49.0	43.5
LAB ID										
LAB NUM	5237	6301	6706	8369	9526	643	1503	2142	3541	4346
METHOD	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A
WET										
ALUMINUM	0.0	0.0	0.0	1.200	0.0	0.0	0.0	0.0	0.0	-0.100
AMMONIA	1.200	0.600	1.700	0.600	0.700	0.0	0.0	0.500	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
BICARBONAT	680.000	665.000	665.000	520.000	660.000	550.000	505.000	560.000	475.000	500.000
CADMIUM	1.100	0.040	0.050	0.050	0.040	0.0	0.0	0.0	0.0	-0.010
CALCIUM	160.000	120.000	110.000	140.000	120.000	110.000	97.000	88.000	67.000	77.000
CARBONATE	-0.100	-0.100	-0.100	38.000	-0.100	-0.100	-0.100	18.000	-0.100	48.000
CHLORIDE	27.000	20.000	13.000	27.000	24.000	20.000	20.000	9.900	9.600	41.000
CHROMIUM	-0.010	-0.010	-0.010	0.200	-0.010	0.0	0.0	0.0	0.0	-0.010
COPPER	1.600	1.800	0.200	0.100	-0.100	0.0	0.0	0.0	0.0	-0.100
FLUORIDE	0.300	0.200	0.200	0.300	0.300	0.200	0.300	0.100	0.300	0.200
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	7.700	16.100	17.000	0.400	0.300	-0.050	-0.050	-0.050	0.050	0.100
LEAD	0.400	0.200	0.200	0.050	0.030	0.0	0.0	0.0	0.0	0.030
MAGNESIUM	88.000	105.000	67.000	96.000	62.000	88.000	100.000	105.000	110.000	115.000
MERCURY	-0.001	-0.001	-0.001	-0.001	-0.001	0.0	0.0	0.0	0.0	-0.001
NITRATE	165.000	14.000	8.500	3.300	2.300	14.000	10.000	16.000	0.0	0.0
PHOSPHATE	-0.100	-0.100	0.100	-0.100	-0.100	0.200	-0.100	0.100	0.300	0.200
POTASSIUM	0.0	0.0	0.0	6.600	1.600	12.000	3.500	6.000	6.000	14.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
SIL DIOXID	34.000	34.000	33.000	33.000	34.000	34.000	34.000	21.000	35.000	32.000
SODIUM	260.000	220.000	180.000	240.000	350.000	220.000	230.000	230.000	230.000	190.000
SULFATE	580.000	580.000	340.000	680.000	700.000	550.000	640.000	600.000	680.000	500.000
SULFIDE	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0	0.0	0.200
ZINC	1.200	1.000	0.800	0.700	-0.100	0.0	0.0	0.0	0.0	-0.100
GROS ALPHA	31.000	26.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	4.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	760.000	730.000	560.000	0.0	555.000	640.000	660.000	0.0	630.000	665.000
PH	6.200	6.400	6.500	6.400	6.400	6.400	6.200	6.800	6.100	6.500
CONDUCTANC	1630.000	1860.000	1[illegible]0.000	1560.000	2050.000	1620.000	1950.000	1840.000	1740.000	1800.000
DIS SOLIDS	1650.000	1450.000	1150.000	1330.000	1570.000	1490.000	1110.000	1380.000	1320.000	1270.000
MANGANESE	6.600	4.300	11.000	4.800	-0.050	-0.050	-0.050	0.0	0.300	0.100
ALKALINITY	560.000	545.000	545.000	460.000	540.000	450.000	415.000	475.000	390.000	455.000
CYANIDE	0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
BORON	0.200	0.100	0.300	4.800	0.200	0.100	0.0	0.600	0.100	0.300
BARIUM	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILVER	0.010	0.040	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.100	0.200	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0	0.0	-0.100
DOC	42.000	9.000	0.0	5.000	0.0	0.0	6.000	0.0	7.000	0.0
NITRITE-N	0.0	0.0	0.0	-0.020	-0.100	0.100	-0.010	0.0	2.000	150.000
[illegible]CMIDE	0.0	0.0	0.0	0.900	0.0	0.0	0.0	0.0	0.0	0.200

SAMPLES	13	14	15	16	17	18	19	20	21	22
C.O.D.	0.0	0.0	0.0	20.000	27.000	0.0	0.0	0.0	0.0	20.000
PHENOLS	0.0	0.0	0.0	-0.001	-0.001	0.0	0.0	0.0	0.0	0.013
KJELDAHL N	0.0	0.0	0.0	2.000	2.700	2.700	-0.100	2.700	3.400	4.100
BERYLLIUM	0.0	0.0	0.0	0.0	-0.020	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.000
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100	0.100	-0.100
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	5.300	-0.100	0.0	-0.100	0.200
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	2.000	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	20.000	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	-10.000	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC										
ALUMINUM	0.100	5.000	0.100	0.0	0.500	0.0	0.010	0.0	0.0	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.001	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.010	0.200	0.0	0.500	0.0	0.200	0.0	0.0	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	0.0	0.0	0.0	99999.000	0.0	0.0	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.020	0.050	0.010	0.0	0.010	0.0	0.001	0.0	0.0	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	2.000	0.100	0.0	0.500	0.0	0.010	0.0	0.0	0.010
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.100	0.000	0.0	0.010	0.0	0.0	0.0	0.0	0.001
LITHIUM	0.001	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	0.0	0.0	0.0	99999.000	0.0	0.0	99999.000
MANGANESE	0.050	0.500	0.200	0.0	0.200	0.0	0.001	0.0	0.0	0.500
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.001	0.001	0.0	0.010	0.0	0.010	0.0	0.0	0.020
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16	17	18	19	20	21	22
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.010	0.100	0.0	0.100	0.0	0.010	0.0	0.0	0.010
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	2.000	5.000	2.000	0.0	5.000	0.0	2.000	0.0	0.0	5.000
SILVER	0.001	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001
SODIUM	5.000	5.000	5.000	0.0	5.000	0.0	5.000	0.0	0.0	99999.000
STRONTIUM	0.100	0.100	0.100	0.0	0.100	0.0	0.100	0.0	0.0	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.010	0.010	0.0	0.010	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.001	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 176608.24 Y- 223657.10 Z- 6483.67
DATE DRILL COMPL-120575 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	33175	41575	42975	51475	52975	61175	63075	71575	80575	83075	100975	112075
DEPTH	0.0	32.28	32.25	31.98	34.50	34.60	32.04	35.39	35.41	33.23	33.87	35.53
TEMP	45.5	46.9	48.2	51.1	48.6	55.8	55.4	56.3	50.6	51.8	64.7	43.7
LAB ID												
LAB NUM	9026	237	238	442	443	901	2263	1545	2051	2767	3445	4659
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A	A
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.500	0.200	0.200	0.200	0.200	0.400	0.0	0.200	-0.100	0.200	-0.100	-0.100
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	700.000	710.000	620.000	550.000	620.000	570.000	680.000	695.000	750.000	755.000	670.000	780.000
CADMIUM	-0.010	-0.010	-0.010	0.010	0.010	0.010	-0.010	0.030	-0.010	-0.010	-0.010	0.060
CALCIUM	28.000	110.000	87.000	81.000	110.000	100.000	125.000	100.000	98.000	54.000	120.000	170.000
CARBONATE	-0.100	-0.100	-0.100	54.000	30.000	36.000	-0.100	-0.100	-0.100	-0.100	37.000	-0.100
CHLORIDE	22.000	16.000	71.000	21.000	21.000	34.000	20.000	25.000	18.000	23.000	21.000	23.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	-0.100	-0.010	0.100	0.100	-0.100	-0.100	3.200	-0.100	0.100
FLUORIDE	0.300	0.400	0.300	0.400	0.400	0.300	0.300	0.400	0.400	0.400	1.100	0.400
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	8.000	8.000	22.000	8.800	7.800	16.000	2.600	5.300	7.600	0.600	0.100
LEAD	0.040	0.100	0.050	0.700	0.400	0.300	0.600	0.700	0.020	0.800	0.060	0.090
MAGNESIUM	120.000	96.000	98.000	95.000	84.000	95.000	92.000	110.000	120.000	140.000	120.000	65.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
NITRATE	2.500	2.900	2.300	4.200	2.500	3.000	3.300	2.700	3.600	2.100	2.500	1.400
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.200	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	37.000	35.000	32.000	33.000	34.000	33.000	40.000	38.000	34.000	35.000	32.000	34.000
SODIUM	265.000	230.000	230.000	210.000	210.000	230.000	220.000	165.000	240.000	220.000	170.000	240.000
SULFATE	450.000	480.000	450.000	420.000	410.000	500.000	500.000	390.000	580.000	470.000	450.000	440.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.040	0.200	0.030	0.300	0.0	0.500	0.700	1.600	0.100	0.900	-0.100	0.500
GROS ALPHA	0.0	14.000	11.000	7.800	9.000	7.600	11.000	15.000	7.200	8.400	13.000	22.000
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	3.000	1.000	0.0	4.200	0.0	0.0
HARDNESS	550.000	670.000	620.000	590.000	620.000	640.000	685.000	690.000	730.000	700.000	800.000	680.000
PH	6.400	6.600	6.500	6.800	6.200	6.400	6.800	6.900	6.800	6.200	6.200	6.400
CONDUCTANC	1511.000	1700.000	1550.000	1650.000	1650.000	1710.000	2090.000	1773.000	1525.000	1580.000	1490.000	1680.000
DIS SOLIDS	1270.000	1280.000	1210.000	1190.000	1200.000	1320.000	1350.000	1170.000	1460.000	1320.000	1290.000	1350.000
MANGANESE	0.090	6.400	0.150	2.900	0.500	2.100	3.500	7.500	2.600	17.000	0.300	8.600
ALKALINITY	570.000	580.000	510.000	494.000	535.000	499.000	555.000	570.000	615.000	620.000	580.000	640.000
CYANIDE	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010
BORON	0.400	1.200	4.700	0.060	10.000	0.030	4.000	0.090	2.100	0.300	0.800	0.200
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.010	-0.010	-0.010	-0.010	0.010	-0.010
NICKEL	0.040	0.070	0.010	0.100	0.040	0.100	0.080	0.100	0.010	0.200	0.060	0.200
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOC	0.0	64.000	54.000	13.000	60.000	10.000	135.000	100.000	66.000	35.000	270.000	259.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.010	0.010	0.010	0.010	0.050	0.050	1.000	0.100	0.100	0.050	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.001
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.200	0.500	0.500	0.200	0.500	0.200	0.500	0.100	0.200	0.500	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	10.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.005	0.010	0.001	0.010	0.001	0.005	0.020	0.010	0.005	0.005	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.050	0.010	0.050	0.020	0.010	0.020	0.020	0.020	0.020	0.020	0.100
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.100	0.001	0.001	0.001	0.0	0.001	0.010	0.010	0.010	0.010	0.001	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	9999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	10.000	99999.000	99999.000	99999.000
MANGANESE	0.010	0.001	0.001	0.010	0.001	0.0	0.010	0.100	0.005	0.005	0.010	0.100
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.0	0.0	0.001	0.0	0.0	0.0	0.005	0.0	0.0	0.001	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.100	0.100	0.100	0.100	1.000	1.000	1.000	1.000	1.000	0.100	0.500
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.100	0.300	0.400	0.200	0.100	0.400	0.400	0.200	0.200	0.0	1.200	0.400
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	2.000	5.000	5.000	2.000	5.000	10.000	2.000	5.000	2.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
SODIUM	99999.000	5.000	5.000	5.000	2.000	5.000	99999.000	99999.000	99999.000	10.000	5.000	5.000
STRONTIUM	0.0	0.100	0.100	0.100	0.100	0.100	0.010	0.100	0.010	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.001	0.0	0.010	0.001	0.001	0.001	0.010	0.0	0.001	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40F OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 176608.24 Y- 223657.10 Z- 6483.67
DATE DRILL COMPL-120575 DATE CONV TO MONITOR- 0 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	13	14	15	16	17	18	19	20	21	22
DATE	121275	12876	21876	41376	52176	62376	73176	82976	92476	111576
DEPTH	34.00	33.62	33.33	32.40	31.83	33.71	31.59	28.11	25.04	34.00
TEMP	46.0	42.8	44.0	46.4	46.4	50.0	53.0	47.8	46.0	42.8
LAB ID										
LAB NUM	5238	6302	6761	8370	9527	644	1501	2143	3543	4347
METHOD	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A
WET										
ALUMINUM	0.0	0.0	0.0	-0.100	0.0	0.0	0.0	0.0	0.0	-0.100
AMMONIA	-0.100	0.800	1.400	0.600	0.100	0.0	0.0	0.200	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
BICARBONAT	710.000	780.000	745.000	610.000	560.000	580.000	600.000	630.000	665.000	575.000
CADMIUM	0.050	0.040	0.040	0.050	0.080	0.0	0.0	0.0	0.0	-0.010
CALCIUM	130.000	110.000	115.000	130.000	52.000	90.000	98.000	89.000	105.000	56.000
CARBONATE	-0.100	-0.100	-0.100	21.000	18.000	-0.100	-0.100	18.000	-0.100	48.000
CHLORIDE	31.000	22.000	18.000	20.000	14.000	21.000	17.000	18.000	23.000	28.000
CHROMIUM	-0.010	-0.010	-0.010	0.200	-0.010	0.0	0.0	0.0	0.0	-0.010
COPPER	6.200	2.700	3.700	0.200	0.100	0.0	0.0	0.0	0.0	-0.100
FLUORIDE	0.500	0.200	0.400	0.500	0.400	0.300	0.400	0.100	0.400	0.200
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	7.700	11.600	16.000	0.400	0.200	-0.050	-0.050	-0.050	-0.050	0.070
LEAD	0.300	0.400	0.400	0.100	0.040	0.0	0.0	0.0	0.0	0.030
MAGNESIUM	89.000	130.000	97.000	98.000	110.000	70.000	90.000	94.000	100.000	125.000
MERCURY	-0.001	-0.001	-0.001	-0.001	-0.001	0.0	0.0	0.0	0.0	-0.001
NITRATE	1.900	2.200	3.000	0.500	4.700	3.200	4.700	3.200	0.0	0.0
PHOSPHATE	-0.100	-0.100	0.100	-0.100	-0.100	0.200	0.200	0.200	0.600	0.100
POTASSIUM	0.0	0.0	0.0	5.700	1.000	8.500	3.000	5.000	6.000	16.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
SIL DIOXID	31.000	32.000	39.000	33.000	36.000	29.000	30.000	18.000	30.000	28.000
SODIUM	200.000	160.000	200.000	160.000	450.000	180.000	180.000	150.000	180.000	165.000
SULFATE	440.000	440.000	420.000	440.000	1000.000	390.000	455.000	400.000	450.000	400.000
SULFIDE	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0	0.0	0.300
ZINC	2.100	0.800	1.100	0.300	0.100	0.0	0.0	0.0	0.0	-0.100
GROS ALPHA	28.000	17.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	11.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HARDNESS	700.000	920.000	640.000	0.0	570.000	510.000	615.000	0.0	675.000	660.000
PH	6.200	6.600	6.400	6.600	6.200	6.200	6.700	0.0	6.000	6.400
CONDUCTANC	1480.000	1820.000	1780.000	1770.000	1550.000	1210.000	1620.000	1630.000	1550.000	1600.000
DIS SOLIDS	1280.000	1330.000	1370.000	1320.000	2090.000	1150.000	1090.000	1190.000	1230.000	1080.000
MANGANESE	27.000	4.200	18.000	4.800	0.070	-0.050	-0.050	0.0	0.080	-0.050
ALKALINITY	580.000	640.000	610.000	520.000	475.000	475.000	490.000	530.000	545.000	51.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0	-0.010
BORON	0.200	0.200	0.200	0.040	0.200	0.200	0.0	0.300	0.100	0.400
BARIUM	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILVER	0.020	0.040	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.200	0.100	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	-0.100	-0.100	0.0	0.0	0.0	0.0	-0.100
DOC	84.000	6.000	0.0	2.900	0.0	0.0	5.000	0.0	6.000	0.0
NITRITE-N	0.0	0.0	0.0	-0.020	-0.100	-0.100	-0.010	0.0	0.700	35.000
BROMIDE	0.0	0.0	0.0	0.800	0.0	0.0	0.0	0.0	0.0	0.400

SAMPLES	13	14	15	16	17	18	19	20	21	22
C.O.D.	0.0	0.0	0.0	5.000	15.000	0.0	0.0	0.0	0.0	20.000
PHENOLS	0.0	0.0	0.0	-0.001	-0.001	0.0	0.0	0.0	0.0	0.007
KJELDAHL N	0.0	0.0	0.0	1.400	1.400	2.000	-0.100	2.000	2.000	2.000
BERYLLIUM	0.0	0.0	0.0	0.0	-0.020	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.800
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	-0.100	0.100	0.200	-0.100	0.400	-0.100
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	1.100	-0.100	0.0	-0.100	0.400
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	2.000	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	150.000	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	20.000	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC										
ALUMINUM	1.000	5.000	5.000	0.0	0.500	0.0	0.010	0.0	0.0	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.010	0.010	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.010	0.100	0.0	0.500	0.0	0.200	0.0	0.0	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	0.0	0.0	0.0	99999.000	0.0	0.0	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.020	0.050	0.050	0.0	0.020	0.0	0.001	0.0	0.0	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.001	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	1.000	5.000	0.0	0.500	0.0	0.010	0.0	0.0	0.010
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.100	0.010	0.0	0.010	0.0	0.0	0.0	0.0	0.001
LITHIUM	0.001	0.001	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	0.0	0.0	0.0	99999.000	0.0	0.0	99999.000
MANGANESE	0.100	0.500	0.200	0.0	0.010	0.0	0.0	0.0	0.0	0.010
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.001	0.0	0.0	0.010	0.0	0.010	0.0	0.0	0.050
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16	17	18	19	20	21	22
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.010	1.000	0.0	0.100	0.0	0.010	0.0	0.0	0.010
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	99999.000	0.0	5.000	0.0	5.000	0.0	0.0	5.000
SILVER	0.001	0.020	0.0	0.0	0.0	0.0	0.100	0.0	0.0	0.001
SODIUM	5.000	5.000	2.000	0.0	5.000	0.0	5.000	0.0	0.0	99999.000
STRONTIUM	0.100	0.100	0.100	0.0	0.100	0.0	0.100	0.0	0.0	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.050	0.500	0.0	0.010	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.010	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.010	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL- 62175 DATE CONV TO MONITOR- 62175 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	63075	71575	80575	83075	100975	112075	121275	12876	21876	52076	62276	73176
DEPTH	52.00	55.69	50.39	54.50	53.60	53.11	51.46	50.81	53.27	51.77	53.24	55.20
TEMP	53.8	55.4	53.6	52.2	50.2	48.2	49.6	47.8	47.0	50.3	54.0	53.0
LAB ID												
LAB NUM	2264	1546	2052	2768	3446	4660	5239	6303	6766	9528	645	1504
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A	A
WET												
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.300	0.300	0.200	0.0	0.200	-0.100	1.100	0.0	-0.100	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.0	0.0
BICARBONAT	600.000	530.000	610.000	520.000	490.000	570.000	580.000	575.000	490.000	585.000	520.000	465.000
CADMIUM	0.030	-0.010	-0.010	-0.010	-0.010	0.040	0.050	0.020	-0.010	0.060	0.0	0.0
CALCIUM	88.000	98.000	140.000	140.000	110.000	240.000	120.000	88.000	100.000	120.000	86.000	100.000
CARBONATE	-0.100	-0.100	-0.100	18.000	28.000	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
CHLORIDE	16.000	23.000	8.200	14.000	21.000	18.000	21.000	15.000	9.400	24.000	17.000	16.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0
COPPER	0.100	-0.100	-0.100	2.600	0.300	8.000	4.100	0.200	-0.100	-0.100	0.0	0.0
FLUORIDE	0.100	0.300	0.600	0.300	0.600	0.300	0.400	0.200	0.200	0.100	0.200	0.300
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	16.000	15.000	8.700	6.200	16.000	2.800	6.700	7.200	17.000	0.100	-0.050	0.830
LEAD	0.700	0.100	0.000	0.900	0.0	13.000	0.800	0.200	0.020	0.040	0.0	0.0
MAGNESIUM	115.000	120.000	77.000	82.000	110.000	12.000	90.000	110.000	85.000	97.000	95.000	83.000
MERCURY	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	-0.001	0.0	0.0
NITRATE	6.800	5.000	7.000	1.000	7.800	4.600	5.000	5.200	6.400	4.700	4.200	5.800
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.200	-0.100	0.100	0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.100	10.000	3.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0
SIL DIOXID	40.000	43.000	38.000	35.000	29.000	32.000	29.000	31.000	29.000	42.000	30.000	24.000
SODIUM	235.000	165.000	310.000	220.000	170.000	220.000	240.000	180.000	190.000	205.000	180.000	205.000
SULFATE	615.000	550.000	780.000	600.000	540.000	540.000	570.000	520.000	550.000	500.000	550.000	620.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	0.0	0.0
ZINC	1.100	5.700	0.300	0.900	1.000	2.000	1.300	0.600	-0.100	-0.100	0.0	0.0
GROS ALPHA	11.000	5.000	9.800	11.000	12.000	21.000	19.000	24.000	0.0	0.0	0.0	0.0
GROSS BETA	5.000	8.000	0.0	30.000	0.0	0.0	0.0	24.000	0.0	0.0	0.0	0.0
HARDNESS	700.000	730.000	665.000	685.000	710.000	640.000	680.000	680.000	590.000	705.000	605.000	590.000
PH	6.800	6.900	6.800	6.200	6.400	6.000	6.100	6.400	6.400	6.600	6.700	6.400
CONDUCTANC	2000.000	1760.000	1615.000	1420.000	1670.000	1540.000	1620.000	1700.000	1590.000	1725.000	1800.000	1640.000
DIS SOLIDS	1420.000	1280.000	1670.000	1640.000	1270.000	1350.000	1370.000	1320.000	1270.000	1420.000	1310.000	1190.000
MANGANESE	12.000	14.000	0.000	2.400	0.200	7.500	5.000	0.600	0.100	-0.050	-0.050	7.800
ALKALINITY	490.000	435.000	500.000	440.000	420.000	470.000	470.000	470.000	400.000	480.000	425.000	380.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	0.0	0.0
BORON	-0.010	0.100	0.500	2.000	0.800	-0.100	0.300	0.100	0.500	0.200	0.200	0.0
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0
SILVER	0.030	-0.010	-0.010	-0.010	0.0	-0.010	0.010	0.010	-0.010	0.0	0.0	0.0
NICKEL	0.200	0.060	0.030	0.090	0.070	0.200	0.200	0.080	0.030	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	0.0	0.0
DOC	174.000	170.000	167.000	61.000	130.000	108.000	122.000	6.000	0.0	0.0	0.0	6.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.010
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.000	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	1.400	-0.100
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.500	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	0.100
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.400	-0.100
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.000	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-10.000
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-10.000
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.010	1.000	0.050	0.100	0.050	1.000	0.500	0.100	5.000	0.500	0.0	2.000
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.010	0.0	0.001	0.0	0.0	0.001	0.0	0.050	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.200	0.500	0.500	0.500	0.500	0.010	0.100	0.500	0.0	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	0.0	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.010
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.005	0.020	0.010	0.001	0.005	0.020	0.010	0.050	0.050	0.010	0.0	0.020
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.001
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.020	0.500	0.050	0.010	0.020	0.050	0.500	0.500	5.000	0.100	0.0	1.000
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.010	0.0	0.001	0.001	0.0	0.0	0.200	0.020	0.001	0.0	0.010
LITHIUM	0.010	0.010	0.001	0.001	0.010	0.001	0.001	0.010	0.0	0.0	0.0	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	0.0	99999.000
MANGANESE	0.005	0.100	0.001	0.010	0.005	0.050	0.100	0.050	0.500	0.010	0.0	0.010
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.010	0.0	0.001	0.001	0.001	0.001	0.001	0.0	0.010	0.0	0.050
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	1.000	0.100	0.100	0.100	2.000	1.000	0.100	1.000	0.100	0.0	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.500	0.100	0.300	0.0	0.600	0.0	0.200	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	10.000	5.000	5.000	5.000	2.000	5.000	2.000	99999.000	5.000	0.0	5.000
SILVER	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.100	0.0	0.010
SODIUM	10.000	99999.000	5.000	5.000	10.000	10.000	5.000	99999.000	2.000	0.0	0.0	10.000
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.0	1.000
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.001
TITANIUM	0.0	0.010	0.010	0.001	0.001	0.001	0.005	0.001	1.000	0.010	0.0	0.010
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.001
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.001	0.001	0.001	0.001	0.001	0.010	0.020	0.0	0.0	0.001
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL- 62175 DATE CONV TO MONITOR- 62175 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	13	14
DATE	82976	111476
DEPTH	58.18	49.11
TEMP	51.4	46.5
LAB ID		
LAB NUM	2144	4348
METHOD	3	3
AQUIF.LOC.	A	A
WET		
ALUMINUM	0.0	-0.100
AMMONIA	2.000	0.0
ARSENIC	0.0	-0.010
BICARBONAT	380.000	415.000
CADMIUM	0.0	-0.010
CALCIUM	110.000	82.000
CARBONATE	36.000	96.000
CHLORIDE	11.000	41.000
CHROMIUM	0.0	-0.010
COPPER	0.0	-0.100
FLUORIDE	0.100	0.200
HYDROXIDE	0.0	0.0
IRON	-0.050	0.050
LEAD	0.0	0.040
MAGNESIUM	65.000	115.000
MERCURY	0.0	-0.010
NITRATE	59.000	0.0
PHOSPHATE	0.600	0.100
POTASSIUM	6.500	8.500
SELENIUM	0.0	-0.010
SIL DIOXID	16.000	28.000
SODIUM	180.000	200.000
SULFATE	520.000	500.000
SULFIDE	0.0	0.400
ZINC	0.0	-0.100
GROS ALPHA	0.0	0.0
GROSS BETA	0.0	0.0
HARDNESS	0.0	685.000
PH	6.600	6.200
CONDUCTANC	1530.000	1720.000
DIS SOLIDS	1220.000	1230.000
MANGANESE	0.0	-0.050
ALKALINITY	340.000	420.000
CYANIDE	0.0	-0.010
BORON	0.100	0.300
BARIUM	0.0	0.0
SILVER	0.0	0.0
NICKEL	0.0	0.0
LITHIUM	0.0	-0.100
DOC	0.0	0.0
NITRITE-N	0.0	5.200
BROMIDE	0.0	-0.100

SAMPLES	13	14
C.O.D.	0.0	22.000
PHENOLS	0.0	-0.001
KJELDAHL N	5.400	2.000
BERYLLIUM	0.0	0.0
MOLYBDENUM	0.0	-0.100
STRONTIUM	0.0	5.800
VANADIUM	0.0	0.0
ORTHO PHOS	0.100	-0.100
AMMONIA-N	0.0	0.100
DIS-ORG C	0.0	0.0
MBAS	0.0	0.0
TOT COLIF	0.0	0.0
FEC COLIF	0.0	0.0
5-DAY B.O.	0.0	0.0
SPECTROGRAPHIC		
ALUMINUM	0.0	0.100
ANTIMONY	0.0	0.0
ARSENIC	0.0	0.0
BARIUM	0.0	0.0
BERYLIUM	0.0	0.0
BISMUTH	0.0	0.0
BORON	0.0	0.500
CADMIUM	0.0	0.0
CALCIUM	0.0	99999.000
CERIUM	0.0	0.0
CESIUM	0.0	0.0
CHROMIUM	0.0	0.0
COBOLT	0.0	0.0
COLUMBIUM	0.0	0.0
COPPER	0.0	0.010
DYSPROSIUM	0.0	0.0
ERBIUM	0.0	0.0
EUROPIUM	0.0	0.0
GADOLINIUM	0.0	0.0
GALLIUM	0.0	0.0
GERMANIUM	0.0	0.0
GOLD	0.0	0.0
HAFNIUM	0.0	0.0
HOLMIUM	0.0	0.0
INDIUM	0.0	0.0
IRIDIUM	0.0	0.0
IRON	0.0	0.050
LANTHANUM	0.0	0.0
LEAD	0.0	0.0
LITHIUM	0.0	0.0
LUTETIUM	0.0	0.0
MAGNESIUM	0.0	99999.000
MANGANESE	0.0	0.010
MERCURY	0.0	0.0
MOLYBDENUM	0.0	0.020
NEODYMIUM	0.0	0.0
NICKEL	0.0	0.0
OSMIUM	0.0	0.0
PALLADIUM	0.0	0.0

SAMPLES	13	14
PLATINUM	0.0	0.0
POTASSIUM	0.0	0.010
PRASEODYMI	0.0	0.0
RADIUM	0.0	0.0
RHENIUM	0.0	0.0
RHODIUM	0.0	0.0
RUBIDIUM	0.0	0.0
RUTHENIUM	0.0	0.0
SAMARIUM	0.0	0.0
SCANDIUM	0.0	0.0
SELENIUM	0.0	0.0
SILICON	0.0	5.000
SILVER	0.0	0.001
SODIUM	0.0	99999.000
STRONTIUM	0.0	0.100
TANTALUM	0.0	0.0
TERBIUM	0.0	0.0
THALLIUM	0.0	0.0
THORIUM	0.0	0.0
THULIUM	0.0	0.0
TIN	0.0	0.0
TITANIUM	0.0	0.0
TUNGSTEN	0.0	0.0
URANIUM	0.0	0.0
VANADIUM	0.0	0.0
YTTERBIUM	0.0	0.0
YTTRIUM	0.0	0.0
ZINC	0.0	0.0
ZIRCONIUM	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL- 61975 DATE CONV TO MONITOR- 62075 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	63075	71575	80575	83075	100975	112075	121275	12876	21876	41376	52076	62276
DEPTH	65.49	67.36	68.00	66.24	66.60	67.48	66.17	65.93	65.58	65.36	64.98	65.91
TEMP	52.3	53.6	50.9	51.8	49.1	46.4	46.7	46.4	46.5	46.0	50.0	52.0
LAB ID												
LAB NUM	2265	1547	2053	2769	3447	4661	5240	6304	6762	8371	9529	646
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A	A
WET												
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.0
AMMONIA	0.0	0.300	-0.100	0.200	-0.100	-0.100	0.300	1.700	1.100	5.300	0.030	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0
BICARBONAT	660.000	695.000	690.000	700.000	620.000	700.000	700.000	680.000	680.000	570.000	565.000	695.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	0.020	-0.010	-0.010	0.090	0.0
CALCIUM	66.000	77.000	68.000	51.000	100.000	190.000	110.000	52.000	69.000	110.000	37.000	55.000
CARBONATE	-0.100	-0.100	-0.100	-0.100	19.000	-0.100	-0.100	-0.100	-0.100	32.000	30.000	-0.100
CHLORIDE	18.000	21.000	12.000	16.000	21.000	16.000	27.000	16.000	16.000	17.000	24.000	20.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.100	-0.010	0.0
COPPER	-0.100	-0.100	0.100	0.300	0.600	0.600	1.100	0.200	0.600	0.200	0.100	0.0
FLUORIDE	0.200	0.400	0.800	0.400	1.200	0.400	0.600	0.300	0.400	0.500	0.100	0.300
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	16.000	8.300	4.900	2.300	5.600	7.800	8.900	2.800	16.000	0.200	-0.050	-0.050
LEAD	0.070	0.200	0.100	0.400	0.100	0.200	0.200	0.100	0.100	0.100	0.300	0.0
MAGNESIUM	135.000	125.000	140.000	145.000	120.000	52.000	120.000	150.000	145.000	135.000	135.000	140.000
MERCURY	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	0.0
NITRATE	1.600	3.500	2.000	3.200	2.200	1.200	1.700	2.000	2.200	0.600	3.600	3.200
PHOSPHATE	0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.100	0.400	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.700	1.000	14.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0
SIL DIOXID	32.000	32.000	28.000	32.000	29.000	35.000	29.000	29.000	28.000	28.000	27.000	29.000
SODIUM	185.000	250.000	175.000	230.000	230.000	265.000	230.000	185.000	215.000	175.000	225.000	200.000
SULFATE	500.000	550.000	495.000	560.000	600.000	560.000	580.000	540.000	550.000	600.000	510.000	500.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	0.0
ZINC	0.600	0.400	0.200	0.100	0.300	0.100	1.100	0.300	0.200	0.300	0.100	0.0
GROS ALPHA	11.000	14.000	8.100	16.000	11.000	18.000	14.000	5.900	0.0	0.0	0.0	0.0
GROSS BETA	6.000	0.0	0.0	14.000	0.0	5.000	11.000	31.000	0.0	0.0	0.0	0.0
HARDNESS	720.000	710.000	735.000	715.000	740.000	700.000	740.000	750.000	770.000	0.0	650.000	710.000
PH	6.800	7.200	6.800	6.000	6.100	6.400	6.000	6.600	6.400	6.700	6.200	6.800
CONDUCTANC	2230.000	1914.000	1740.000	1860.000	1870.000	1625.000	1630.000	1903.000	1890.000	1840.000	1925.000	1700.000
DIS SOLIDS	1250.000	1410.000	1260.000	1380.000	1430.000	1470.000	1460.000	1440.000	1520.000	1520.000	1330.000	1560.000
MANGANESE	1.300	0.600	0.100	0.050	0.300	0.800	0.900	0.500	0.800	0.300	-0.050	-0.050
ALKALINITY	540.000	570.000	565.000	575.000	530.000	575.000	570.000	560.000	555.000	490.000	490.000	570.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	0.010	-0.010	0.030	-0.010	0.0
BORON	2.600	0.300	0.400	0.500	0.500	0.400	0.700	0.700	0.300	0.030	0.200	1.200
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0
SILVER	0.010	-0.010	-0.010	-0.010	0.020	-0.010	-0.010	0.010	0.010	0.0	0.0	0.0
NICKEL	0.030	0.050	0.020	0.040	0.060	0.050	0.050	0.070	0.040	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	0.0
DOC	19.000	11.000	9.000	9.000	20.000	11.000	16.000	8.000	0.0	4.300	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	-0.100	-0.100
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.000	14.000	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.300	2.000	-0.100
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.900
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.000
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.005	0.500	0.010	0.050	0.100	1.000	0.100	0.500	0.500	0.0	0.010	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.001	0.001	0.0	0.0	0.001	0.010	0.001	0.0	0.001	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.200	0.500	0.500	0.500	0.500	0.020	0.100	0.0	0.200	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	99999.000	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.005	0.010	0.005	0.005	0.001	0.010	0.005	0.050	0.020	0.0	0.010	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.100	0.010	0.020	0.010	0.500	0.050	0.500	0.200	0.0	0.001	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.100	0.010	0.0	0.010	0.0
LITHIUM	0.010	0.001	0.0	0.010	0.010	0.001	0.001	0.010	0.001	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	99999.000	0.0
MANGANESE	0.001	0.050	0.001	0.010	0.010	0.100	0.050	0.100	0.100	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.001	0.0	0.0	0.010	0.001	0.001	0.001	0.0	0.010	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.100	0.100	0.0	0.100	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.500	0.0	0.400	0.100	0.400	0.200	0.400	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	2.000	5.000	2.000	2.000	5.000	5.000	5.000	5.000	5.000	0.0	5.000	0.0
SILVER	0.0	0.001	0.0	0.0	0.0	0.001	0.001	0.005	0.001	0.0	0.001	0.0
SODIUM	10.000	99999.000	10.000	10.000	10.000	10.000	5.000	10.000	5.000	0.0	0.0	0.0
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.0	0.100	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
TITANIUM	0.001	0.001	0.0	0.001	0.001	0.001	0.010	0.050	0.100	0.0	0.001	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.010	0.010	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL- 61975 DATE CONV TO MONITOR- 62075 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	13	14	15	16
DATE	73176	82976	92475	111476
DEPTH	65.06	65.40	67.00	65.47
TEMP	54.0	49.1	48.0	48.0
LAB ID				
LAB NUM	1505	2145	3945	4349
METHOD	3	3	3	3
AQUIF.LOC.	A	A	A	A
WET				
ALUMINUM	0.0	0.0	0.0	-0.100
AMMONIA	0.0	0.400	0.0	0.0
ARSENIC	0.0	0.0	0.0	-0.010
BICARBONAT	615.000	565.000	640.000	510.000
CADMIUM	0.0	0.0	0.0	-0.010
CALCIUM	69.000	84.000	100.000	67.000
CARBONATE	-0.100	42.000	-0.100	120.000
CHLORIDE	31.000	9.900	21.000	41.000
CHROMIUM	0.0	0.0	0.0	-0.010
COPPER	0.0	0.0	0.0	-0.100
FLUORIDE	0.400	0.200	0.500	0.300
HYDROXIDE	0.0	0.0	0.0	0.0
IRON	-0.050	-0.050	-0.050	0.090
LEAD	0.0	0.0	0.0	0.060
MAGNESIUM	135.000	135.000	120.000	140.000
MERCURY	0.0	0.0	0.0	-0.001
NITRATE	2.900	4.400	0.0	0.0
PHOSPHATE	0.200	0.100	0.200	0.200
POTASSIUM	3.800	6.500	6.000	13.000
SELENIUM	0.0	0.0	0.0	-0.010
SIL DIOXID	29.000	17.000	28.000	28.000
SODIUM	270.000	190.000	280.000	250.000
SULFATE	655.000	580.000	710.000	550.000
SULFIDE	0.0	0.0	0.0	0.600
ZINC	0.0	0.0	0.0	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0
HARDNESS	730.000	0.0	745.000	735.000
PH	6.800	6.800	0.0	6.000
CONDUCTANC	1900.000	1900.000	0.0	1850.000
DIS SOLIDS	1410.000	1430.000	1410.000	1420.000
MANGANESE	-0.050	0.0	0.000	-0.050
ALKALINITY	1505.000	495.000	525.000	515.000
CYANIDE	0.0	0.0	0.0	-0.010
BORON	0.0	3.600	0.100	0.500
BARIUM	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	-0.100
DOC	6.000	0.0	6.000	0.0
NITRITE-N	-0.010	0.0	0.0	2.400
BROMIDE	0.0	0.0	0.0	0.400

SAMPLES	13	14	15	16
C.O.D.	0.0	0.0	0.0	20.000
PHENOLS	0.0	0.0	0.0	0.005
KJELDAHL N	-0.100	6.100	6.100	-0.100
BERYLLIUM	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	-0.100
STRONTIUM	0.0	0.0	0.0	6.500
VANADIUM	0.0	0.0	0.0	0.0
ORTHO PHOS	-0.100	-0.100	-0.100	-0.100
AMMONIA-N	-0.100	0.0	0.500	-0.100
DIS-ORG C	0.0	0.0	0.0	0.0
MBAS	-0.010	0.0	0.0	0.0
TOT COLIF	60.000	0.0	0.0	0.0
FEC COLIF	-10.000	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0
SPECTROGRAPHIC				
ALUMINUM	0.010	0.0	0.0	0.010
ANTIMONY	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0
BORON	0.200	0.0	0.0	0.500
CADMIUM	0.0	0.0	0.0	0.0
CALCIUM	99999.000	0.0	0.0	99999.000
CERIUM	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0
COPPER	0.001	0.0	0.0	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0
IRON	0.010	0.0	0.0	0.010
LANTHANUM	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	0.0	0.0	99999.000
MANGANESE	0.0	0.0	0.0	0.001
MERCURY	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.0	0.0	0.020
NEODYMIUM	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16
PLATINUM	0.0	0.0	0.0	0.0
POTASSIUM	0.010	0.0	0.0	0.010
PRASEODYMI	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0
SILICON	2.000	0.0	0.0	5.000
SILVER	0.0	0.0	0.0	0.0
SODIUM	5.000	0.0	0.0	99999.000
STRONTIUM	0.100	0.0	0.0	0.100
TANTALUM	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL- 62075 DATE CONV TO MONITOR- 62075 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	63075	71575	80575	83075	100975	112075	121275	12876	21876	41376	52076	62276
DEPTH	28.50	30.44	30.75	28.81	29.22	30.28	29.35	29.04	28.82	28.55	28.45	28.62
TEMP	50.9	55.0	50.9	49.1	49.1	46.9	48.9	46.6	46.2	46.5	50.9	53.0
LAB ID												
LAB NUM	2267	1548	2094	2770	3448	4662	5241	6305	6763	8372	9530	647
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A	A
WET												
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.0
AMMONIA	0.0	0.300	-0.100	0.200	-0.100	0.200	-0.100	0.800	1.100	2.000	0.600	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0
BICARBONAT	600.000	525.000	590.000	605.000	590.000	600.000	600.000	600.000	600.000	530.000	620.000	615.000
CADMIUM	-0.010	0.010	-0.010	-0.010	-0.010	0.050	-0.010	0.020	0.010	-0.010	0.080	0.0
CALCIUM	96.000	84.000	84.000	50.000	110.000	170.000	130.000	90.000	88.000	130.000	62.000	62.000
CARBONATE	-0.100	-0.100	-0.100	605.000	-0.010	-0.100	-0.100	-0.100	-0.100	18.000	-0.100	-0.100
CHLORIDE	11.000	22.000	12.000	14.000	14.000	16.000	27.000	13.000	19.000	14.000	20.000	31.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.100	-0.010	0.0
COPPER	-0.100	-0.100	0.300	0.200	0.200	-0.100	1.000	0.200	0.400	0.800	-0.100	0.0
FLUORIDE	0.100	0.400	0.400	0.200	0.700	0.300	0.400	0.200	0.200	0.600	0.200	0.200
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.500	17.700	0.600	1.000	1.100	0.800	8.800	1.200	7.800	0.080	-0.050	-0.050
LEAD	0.040	0.040	0.300	0.300	0.070	0.090	0.200	0.200	0.090	0.300	0.040	0.0
MAGNESIUM	120.000	105.000	130.000	135.000	130.000	67.000	100.000	130.000	110.000	110.000	145.000	135.000
MERCURY	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	0.0
NITRATE	-0.100	1.600	4.500	2.900	4.400	2.300	2.800	2.800	4.000	0.700	3.100	4.600
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	0.200	-0.100	-0.100	0.100	-0.100	1.200	1.600
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.500	-1.000	14.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0
SIL DIOXID	32.000	44.000	34.000	28.000	27.000	30.000	28.000	29.000	28.000	27.000	28.000	28.000
SODIUM	160.000	220.000	150.000	220.000	180.000	230.000	230.000	165.000	220.000	160.000	170.000	200.000
SULFATE	510.000	550.000	510.000	580.000	630.000	600.000	600.000	560.000	600.000	680.000	510.000	600.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	0.0
ZINC	0.400	2.600	0.100	0.100	-0.100	0.100	0.700	0.200	0.200	0.600	-0.100	0.0
GROS ALPHA	3.300	16.000	8.500	10.000	9.300	23.000	25.000	8.900	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	18.000	0.0	27.000	12.000	2.000	0.0	0.0	0.0	0.0
HARDNESS	750.000	650.000	750.000	685.000	800.000	700.000	750.000	750.000	660.000	0.0	745.000	715.000
PH	7.000	7.000	6.900	6.100	6.100	6.000	6.000	6.100	6.100	6.500	6.600	6.900
CONDUCTANC	2275.000	1920.000	1680.000	1780.000	1670.000	1730.000	1770.000	1904.000	1760.000	1780.000	1850.000	1540.000
DIS SOLIDS	1220.000	1300.000	1210.000	1320.000	1390.000	1410.000	1450.000	1260.000	1420.000	1430.000	1380.000	1500.000
MANGANESE	0.200	13.000	0.500	-0.050	-0.050	5.500	5.200	0.300	1.000	0.100	0.060	-0.050
ALKALINITY	490.000	430.000	485.000	495.000	480.000	495.000	490.000	490.000	490.000	450.000	510.000	505.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0
BORON	0.900	0.100	0.100	0.600	0.300	0.100	0.100	-0.100	0.100	0.030	0.100	-0.100
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.040	0.010	0.0	0.0	0.0
NICKEL	0.010	0.030	0.000	0.030	0.070	0.200	0.200	0.050	0.060	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	0.0
DOC	44.000	75.000	10.000	20.000	7.000	90.000	42.000	8.000	0.0	3.600	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.100	-0.100
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.900	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.500	12.000	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.700	1.100	-0.100
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.400	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.000	-0.100
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.000
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.050	0.500	0.050	0.010	0.010	0.500	0.500	0.500	0.500	0.0	0.010	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.001	0.0	0.001	0.010	0.001	0.001	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.500	0.500	0.200	0.500	0.500	0.500	0.020	0.500	0.0	0.500	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	99999.000	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.010	0.010	0.010	0.010	0.020	0.050	0.050	0.0	0.050	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.020	0.020	0.050	0.020	0.100	0.050	0.200	0.200	0.0	0.001	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.100	0.020	0.0	0.500	0.0
LITHIUM	0.001	0.010	0.010	0.001	0.001	0.001	0.001	0.010	0.001	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.0[illegible]	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	99999.000	0.0
MANGANESE	0.005	0.050	0.0[illegible]	0.010	0.001	0.050	0.100	0.100	0.050	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.0	0.001	0.001	0.001	0.0	0.001	0.010	0.0	0.020	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.070	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	1.000	1.000	0.100	1.000	1.000	1.000	0.010	0.010	0.0	0.100	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.100	0.200	0.0	0.200	0.100	0.300	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	10.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	0.0	5.000	0.0
SILVER	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0
SODIUM	5.000	<9999.000	99999.000	2.000	5.000	10.000	5.000	5.000	5.000	0.0	10.000	0.0
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.0	0.100	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.010	0.0	0.001	0.0	0.001	0.001	0.010	0.100	0.0	0.001	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.001	0.0	0.001	0.0	0.001	0.0	0.0	0.010	0.010	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL- 62075 DATE CONV TO MONITOR- 62075 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	13	14	15	16
DATE	73176	82976	92476	111476
DEPTH	29.16	29.51	32.00	65.47
TEMP	52.0	48.7	49.0	47.5
LAB ID				
LAB NUM	1506	2146	3544	4333
METHOD	3	3	3	3
AQUIF.LOC.	A	A	A	A
WET				
ALUMINUM	0.0	0.0	0.0	-0.100
AMMONIA	0.0	0.400	0.0	0.0
ARSENIC	0.0	0.0	0.0	-0.010
BICARBONAT	555.000	520.000	575.000	710.000
CADMIUM	0.0	0.0	0.0	0.010
CALCIUM	90.000	98.000	105.000	52.000
CARBONATE	-0.100	0.0	-0.100	-0.100
CHLORIDE	21.000	9.900	18.000	55.000
CHROMIUM	0.0	0.0	0.0	-0.010
COPPER	0.0	0.0	0.0	-0.100
FLUORIDE	0.300	-0.100	0.400	0.100
HYDROXIDE	0.0	0.0	0.0	0.0
IRON	-0.050	-0.050	-0.050	-0.050
LEAD	0.0	0.0	0.0	0.030
MAGNESIUM	115.000	120.000	120.000	140.000
MERCURY	0.0	0.0	0.0	-0.001
NITRATE	3.300	0.200	0.0	0.0
PHOSPHATE	0.100	0.100	0.200	0.100
POTASSIUM	2.400	5.500	4.000	7.000
SELENIUM	0.0	0.0	0.0	-0.010
SIL DIOXID	28.000	17.000	26.000	25.000
SODIUM	220.000	150.000	200.000	300.000
SULFATE	685.000	570.000	690.000	650.000
SULFIDE	0.0	0.0	0.0	0.200
ZINC	0.0	0.0	0.0	0.100
GROS ALPHA	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0
HARDNESS	705.000	0.0	765.000	705.000
PH	6.400	6.400	6.100	6.000
CONDUCTANC	1620.000	1820.000	1850.000	1850.000
DIS SOLIDS	1410.000	1390.000	1350.000	1330.000
MANGANESE	-0.050	0.0	-0.050	-0.050
ALKALINITY	455.000	450.000	470.000	580.000
CYANIDE	0.0	0.0	0.0	-0.010
BORON	0.0	0.200	-0.100	0.400
BARIUM	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	-0.100
DOC	15.000	0.0	14.000	0.0
NITRITE-N	-0.010	0.0	0.100	3.900
BROMIDE	0.0	0.0	0.0	0.500

SAMPLES	13	14	15	16
C.O.D.	0.0	0.0	0.0	35.000
PHENOLS	0.0	0.0	0.0	-0.001
KJELDAHL N	-0.100	1.400	5.400	2.700
BERYLLIUM	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	-0.100
STRONTIUM	0.0	0.0	0.0	5.500
VANADIUM	0.0	0.0	0.0	0.0
ORTHO PHOS	0.100	-0.100	-0.100	0.100
AMMONIA-N	-0.100	0.0	-0.100	0.400
DIS-ORG C	0.0	0.0	0.0	0.0
MBAS	-0.010	0.0	0.0	0.0
TOT COLIF	90.000	0.0	0.0	0.0
FEC COLIF	-10.000	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0
SPECTROGRAPHIC				
ALUMINUM	1.000	0.0	0.0	0.100
ANTIMONY	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0
BORON	0.500	0.0	0.0	0.500
CADMIUM	0.0	0.0	0.0	0.0
CALCIUM	99999.000	0.0	0.0	99999.000
CERIUM	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0
CHROMIUM	0.001	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0
COPPER	0.020	0.0	0.0	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0
IRON	0.100	0.0	0.0	0.010
LANTHANUM	0.0	0.0	0.0	0.0
LEAD	0.050	0.0	0.0	0.001
LITHIUM	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	0.0	0.0	99999.000
MANGANESE	0.010	0.0	0.0	0.010
MERCURY	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.0	0.0	0.050
NEODYMIUM	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16
PLATINUM	0.0	0.0	0.0	0.0
POTASSIUM	0.010	0.0	0.0	0.010
PRASEODYMI	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0
SILICON	5.000	0.0	0.0	2.000
SILVER	0.0	0.0	0.0	0.0
SODIUM	5.000	0.0	0.0	99999.000
STRONTIUM	0.100	0.0	0.0	0.100
TANTALUM	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0
ZINC	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL- 61875 DATE CONV TO MONITOR- 61875 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	63075	71575	80575	83075	101075	112075	121275	12876	21876	41376	52076	62376
DEPTH	5.20	7.99	8.12	5.81	6.25	7.45	6.22	6.43	6.75	7.17	9.08	6.25
TEMP	52.5	51.8	50.0	10.9	46.6	46.8	46.4	44.6	44.2	46.4	45.5	48.0
LAB ID												
LAB NUM	2268	1549	2056	2771	3449	4663	5242	6306	6764	8373	9531	648
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	A	A	A	A	A	A	A	A	A	A	A	A
WET												
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	0.0	0.0
AMMONIA	0.0	0.400	-0.100	0.200	-0.100	0.100	-0.100	1.100	2.000	0.200	0.500	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0
BICARBONAT	580.000	590.000	635.000	540.000	510.000	620.000	600.000	590.000	580.000	470.000	545.000	610.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	-0.010	0.030	0.020	-0.010	0.100	0.0
CALCIUM	31.000	75.000	84.000	48.000	77.000	180.000	120.000	110.000	92.000	110.000	70.000	75.000
CARBONATE	-0.100	-0.100	-0.100	30.000	31.000	-0.100	-0.100	-0.100	-0.100	32.000	36.000	-0.100
CHLORIDE	9.500	25.000	11.000	14.000	21.000	22.000	17.000	16.000	11.000	14.000	30.000	18.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.200	-0.010	0.0
COPPER	-0.100	-0.100	-0.100	0.200	0.400	0.800	1.300	0.200	0.300	-0.100	0.300	0.0
FLUORIDE	0.200	0.300	0.400	0.200	0.800	0.300	0.400	0.200	0.200	0.400	0.200	0.200
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	2.800	13.300	1.500	8.100	1.500	7.600	8.200	3.800	8.500	0.070	-0.050	-0.050
LEAD	0.040	0.800	0.200	0.500	0.200	0.200	0.200	0.200	0.090	0.010	0.400	0.0
MAGNESIUM	145.000	81.000	110.000	140.000	120.000	40.000	92.000	100.000	80.000	100.000	105.000	110.000
MERCURY	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	0.0
NITRATE	5.200	4.600	5.100	8.500	7.800	4.400	5.000	6.000	8.000	2.000	4.400	8.000
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100	0.100	-0.100	-0.100	0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.100	1.000	12.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0
SIL DIOXID	28.000	30.000	29.000	28.000	28.000	28.000	27.000	28.000	27.000	28.000	29.000	27.000
SODIUM	175.000	250.000	185.000	165.000	160.000	230.000	180.000	140.000	195.000	180.000	240.000	180.000
SULFATE	510.000	500.000	485.000	460.000	460.000	460.000	470.000	460.000	450.000	560.000	500.000	450.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.010	0.0
ZINC	0.100	1.500	0.100	0.200	-0.100	13.000	0.200	0.400	0.200	0.200	0.400	0.0
GROS ALPHA	9.300	4.700	9.100	9.300	11.000	18.000	23.000	16.000	0.0	0.0	0.0	0.0
GROSS BETA	0.0	4.000	0.0	0.0	0.0	0.0	19.000	24.000	0.0	0.0	0.0	0.0
HARDNESS	665.000	520.000	655.000	700.000	700.000	620.000	630.000	700.000	560.000	0.0	610.000	635.000
PH	7.000	7.000	7.000	6.100	6.100	6.300	6.200	6.500	6.300	6.600	6.000	6.500
CONDUCTANC	1910.000	1688.000	1490.000	1590.000	1540.000	1570.000	1600.000	1714.000	1750.000	1770.000	1725.000	1440.000
DIS SOLIDS	1190.000	1260.000	1220.000	1170.000	1160.000	1280.000	1210.000	1120.000	1230.000	1250.000	1270.000	1320.000
MANGANESE	0.100	1.100	0.100	0.800	0.060	0.800	2.100	0.600	1.000	0.200	0.700	-0.050
ALKALINITY	475.000	480.000	520.000	464.000	440.000	505.000	490.000	485.000	475.000	410.000	475.000	500.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	0.010	-0.010	0.030	-0.010	0.200
BORON	0.600	-0.010	0.100	0.400	0.400	0.100	0.300	0.300	0.200	0.050	8.200	0.0
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0
SILVER	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	0.040	0.030	0.0	0.0	0.0
NICKEL	0.010	0.060	0.010	0.060	0.050	0.050	0.100	0.090	0.010	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	0.100	0.0
DOC	19.000	12.000	23.000	11.000	16.000	30.000	28.000	10.000	0.0	3.900	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.100	-0.100
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.800	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.000	17.000	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.400	1.400	-0.100
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.300	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.200
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.000
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.010	0.200	0.100	0.100	0.100	1.000	0.100	1.000	1.000	0.0	0.100	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.001	0.0	0.0	0.001	0.001	0.010	0.010	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.200	0.500	0.200	0.200	0.500	0.500	0.020	0.500	0.0	0.500	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	10.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	99999.000	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.005	0.010	0.010	0.005	0.020	0.020	0.020	0.050	0.050	0.0	0.010	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.020	0.050	0.020	0.020	0.050	0.050	0.050	1.000	1.000	0.0	0.010	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.100	0.020	0.0	0.010	0.0
LITHIUM	0.010	0.010	0.010	0.010	0.001	0.001	0.001	0.0	0.001	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	10.000	99999.000	5.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	99999.000	0.0
MANGANESE	0.001	0.100	0.010	0.005	0.010	0.100	0.100	0.500	0.100	0.0	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.005	0.0	0.0	0.001	0.001	0.001	0.010	0.0	0.010	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	1.000	1.000	1.000	0.100	1.000	1.000	0.010	0.100	0.0	0.010	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.400	0.200	0.200	0.0	0.700	0.0	0.600	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	10.000	5.000	5.000	5.000	2.000	2.000	10.000	5.000	0.0	5.000	0.0
SILVER	0.0	0.001	0.0	0.0	0.0	0.001	0.001	0.010	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	10.000	5.000	5.000	5.000	5.000	5.000	0.0	5.000	0.0
STRONTIUM	0.100	0.100	0.010	0.100	0.100	0.100	0.100	0.100	0.100	0.0	0.100	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.0	0.0	0.001	0.001	0.010	0.050	0.100	0.0	0.001	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.010	0.010	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0
DATE DRILL COMPL- 61875 DATE CONV TO MONITOR- 61875 AQUIFER 1: 0.0 - 0.0 FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	13	14	15	16
DATE	73176	82976	92476	111576
DEPTH	6.95	6.69	9.[illegible]7	9.42
TEMP	52.0	50.9	50.0	45.6
LAB ID				
LAB NUM	1507	2147	3545	4128
METHOD	3	3	3	3
AQUIF.LOC.	A	A	A	A
WET				
ALUMINUM	0.0	0.0	0.0	-0.100
AMMONIA	0.0	0.400	0.0	0.0
ARSENIC	0.0	0.0	0.0	-0.010
BICARBONAT	480.000	555.000	555.000	645.000
CADMIUM	0.0	0.0	0.0	0.020
CALCIUM	49.000	125.000	96.000	115.000
CARBONATE	-0.100	-0.100	-0.100	-0.100
CHLORIDE	14.000	13.000	18.000	16.000
CHROMIUM	0.0	0.0	0.0	-0.010
COPPER	0.0	0.0	0.0	-0.100
FLUORIDE	0.300	0.100	0.400	0.300
HYDROXIDE	0.0	0.0	0.0	0.0
IRON	-0.050	-0.050	-0.050	-0.050
LEAD	0.0	0.0	0.0	0.080
MAGNESIUM	125.000	92.000	105.000	31.000
MERCURY	0.0	0.0	0.0	-0.001
NITRATE	5.800	6.800	0.0	0.0
PHOSPHATE	-0.100	0.100	-0.100	0.200
POTASSIUM	3.000	0.0	5.000	5.000
SELENIUM	0.0	0.0	0.0	-0.010
SIL DIOXID	28.000	17.000	30.000	26.000
SODIUM	180.000	150.000	130.000	310.000
SULFATE	580.000	450.000	455.000	480.000
SULFIDE	0.0	0.0	0.0	0.600
ZINC	0.0	0.0	0.0	0.100
GROS ALPHA	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0
HARDNESS	640.000	0.0	675.000	415.000
PH	6.600	6.600	6.400	6.100
CONDUCTANC	1520.000	1680.000	1440.000	1550.000
DIS SOLIDS	1170.000	1260.000	1020.000	1230.000
MANGANESE	-0.050	0.0	-0.050	-0.050
ALKALINITY	395.000	455.000	455.000	530.000
CYANIDE	0.0	0.0	0.0	-0.010
BORON	0.0	0.200	0.100	0.100
BARIUM	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	-0.100
DOC	14.000	0.0	8.000	0.0
NITRITE-N	-0.010	0.0	1.000	24.500
BROMIDE	0.0	0.0	0.0	-0.100

SAMPLES	13	14	15	16
C.O.D.	0.0	0.0	0.0	47.600
PHENOLS	0.0	0.0	0.0	-0.001
KJELDAHL N	-0.100	0.700	2.000	2.800
BERYLLIUM	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	-0.100
STRONTIUM	0.0	0.0	0.0	4.600
VANADIUM	0.0	0.0	0.0	0.0
ORTHO PHOS	-0.100	-0.100	-0.100	-0.100
AMMONIA-N	-0.100	0.0	-0.100	0.500
DIS-ORG C	0.0	0.0	0.0	0.0
MBAS	-0.010	0.0	0.0	0.0
TOT COLIF	-10.000	0.0	0.0	0.0
FEC COLIF	-10.000	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	5.200
SPECTROGRAPHIC				
ALUMINUM	0.010	0.0	0.0	0.010
ANTIMONY	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0
BORON	0.200	0.0	0.0	0.200
CADMIUM	0.0	0.0	0.0	0.0
CALCIUM	99999.000	0.0	0.0	99999.000
CERIUM	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0
COPPER	0.001	0.0	0.0	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0
IRON	0.010	0.0	0.0	0.010
LANTHANUM	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.010
LITHIUM	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	0.0	0.0	99999.000
MANGANESE	0.0	0.0	0.0	0.050
MERCURY	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.0	0.0	0.010
NEODYMIUM	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16
PLATINUM	0.0	0.0	0.0	0.0
POTASSIUM	0.010	0.0	0.0	0.010
PRASEODYMI	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0
SILICON	2.000	0.0	0.0	2.000
SILVER	0.0	0.0	0.0	0.0
SODIUM	5.000	0.0	0.0	99999.000
STRONTIUM	0.100	0.0	0.0	0.100
TANTALUM	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0

SAMPLE ITEM RANGE AND AVERAGE

ITEM	COMBINED AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	A AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
WET										
ALUMINUM	**********	0.0	0.0	0	0.0	-0.100	1.200	0.078	18	0.282
AMMONIA	**********	0.0	0.0	0	0.0	0.030	6.400	0.537	107	0.883
ARSENIC	**********	0.0	0.0	0	0.0	-0.010	-0.100	0.000	118	0.001
BICARBONAT	**********	0.0	0.0	0	0.0	360.000	780.000	559.763	148	100.308
CADMIUM	**********	0.0	0.0	0	0.0	-0.010	1.100	0.029	118	0.108
CALCIUM	**********	0.0	0.0	0	0.0	28.000	240.000	98.189	148	34.892
CARBONATE	**********	0.0	0.0	0	0.0	-0.010	605.000	11.837	147	52.280
CHLORIDE	**********	0.0	0.0	0	0.0	1.300	71.000	18.017	148	9.037
CHROMIUM	**********	0.0	0.0	0	0.0	-0.010	0.200	0.008	117	0.035
COPPER	**********	0.0	0.0	0	0.0	-0.010	8.000	0.453	118	1.149
FLUORIDE	**********	0.0	0.0	0	0.0	-0.100	1.200	0.331	147	0.176
HYDROXIDE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
IRON	**********	0.0	0.0	0	0.0	-0.050	28.000	4.940	148	5.840
LEAD	**********	0.0	0.0	0	0.0	0.010	13.000	0.328	117	1.203
MAGNESIUM	**********	0.0	0.0	0	0.0	3.700	150.000	87.527	149	36.541
MERCURY	**********	0.0	0.0	0	0.0	-0.001	-0.010	0.000	118	0.000
NITRATE	**********	0.0	0.0	0	0.0	-0.100	165.000	6.467	153	15.206
PHOSPHATE	**********	0.0	0.0	0	0.0	-0.010	1.600	0.072	148	0.187
POTASSIUM	**********	0.0	0.0	0	0.0	-1.000	16.000	5.531	51	3.970
SELENIUM	**********	0.0	0.0	0	0.0	-0.010	-0.100	0.0	116	0.0
SIL DIOXID	**********	0.0	0.0	0	0.0	16.000	44.000	29.953	148	5.183
SODIUM	**********	0.0	0.0	0	0.0	66.000	450.000	189.000	148	60.329
SULFATE	**********	0.0	0.0	0	0.0	145.000	1000.000	459.257	148	158.709
SULFIDE	**********	0.0	0.0	0	0.0	-0.010	0.600	0.105	22	0.196
ZINC	**********	0.0	0.0	0	0.0	0.010	13.000	0.621	116	1.370
GROS ALPHA	**********	0.0	0.0	0	0.0	1.400	31.000	11.992	34	6.759
GROSS BETA	**********	0.0	0.0	0	0.0	1.000	35.000	13.340	30	10.009
HARDNESS	**********	0.0	0.0	0	0.0	280.000	820.000	599.776	134	140.835
PH	**********	0.0	0.0	0	0.0	-6.000	7.200	6.401	145	0.620
CONDUCTANC	**********	0.0	0.0	0	0.0	860.000	2275.000	1545.921	147	347.407
DIS SOLIDS	**********	0.0	0.0	0	0.0	640.000	2090.000	1184.257	148	290.734
MANGANESE	**********	0.0	0.0	0	0.0	-0.050	27.000	2.430	140	4.228
ALKALINITY	**********	0.0	0.0	0	0.0	51.000	1505.000	472.257	148	126.640
CYANIDE	**********	0.0	0.0	0	0.0	-0.010	0.200	0.003	119	0.019
BORON	**********	0.0	0.0	0	0.0	-0.010	27.000	1.007	140	2.738
BARIUM	**********	0.0	0.0	0	0.0	-1.000	-1.000	0.0	96	0.0
SILVER	**********	0.0	0.0	0	0.0	-0.010	-0.100	0.007	95	0.013
NICKEL	**********	0.0	0.0	0	0.0	0.010	0.200	0.074	96	0.057
LITHIUM	**********	0.0	0.0	0	0.0	-0.100	0.100	0.009	22	0.029
DOC	**********	0.0	0.0	0	0.0	2.900	292.000	45.501	104	59.319
NITRITE-N	**********	0.0	0.0	0	0.0	-0.010	150.000	6.087	44	23.425
BROMIDE	**********	0.0	0.0	0	0.0	-0.100	0.900	0.429	14	0.354
C.O.D.	**********	0.0	0.0	0	0.0	2.500	85.000	21.577	22	17.866
PHENOLS	**********	0.0	0.0	0	0.0	-0.001	0.013	0.002	22	0.004
KJELDAHL N	**********	0.0	0.0	0	0.0	-0.100	8.800	2.096	52	1.907
BERYLLIUM	**********	0.0	0.0	0	0.0	-0.020	2.500	0.612	8	0.884
MOLYBDENUM	**********	0.0	0.0	0	0.0	-0.100	-0.100	0.0	8	0.0
STRONTIUM	**********	0.0	0.0	0	0.0	2.200	6.500	4.600	8	1.486
VANADIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0

SAMPLE ITEM RANGE AND AVERAGE

	COMBINED AQUIFER					A AQUIFER				
ITEM	LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
ORTHO PHOS	**********	0.0	0.0	0	0.0	-0.100	1.000	0.050	46	0.160
AMMONIA-N	**********	0.0	0.0	0	0.0	-0.100	5.300	0.533	30	1.044
DIS-ORG C	**********	0.0	0.0	0	0.0	2.000	3.000	2.125	8	0.354
MBAS	**********	0.0	0.0	0	0.0	-0.010	-0.010	0.0	6	0.0
TOT COLIF	**********	0.0	0.0	0	0.0	-10.000	250.000	81.429	7	91.911
FEC COLIF	**********	0.0	0.0	0	0.0	-10.000	40.000	8.571	7	15.736
5-DAY B.O.	**********	0.0	0.0	0	0.0	3.800	5.200	4.300	3	0.781
SPECTROGRAPHIC										
ALUMINUM	**********	0.0	0.0	0	0.0	0.005	5.000	0.458	119	0.959
ANTIMONY	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
ARSENIC	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
BARIUM	**********	0.0	0.0	0	0.0	0.001	0.050	0.008	51	0.013
BERYLLIUM	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	5	0.0
BISMUTH	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
BORON	**********	0.0	0.0	0	0.0	0.010	0.500	0.352	119	0.178
CADMIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
CALCIUM	**********	0.0	0.0	0	0.0	10.000	99999.000	10.000	6	0.0
CERIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
CESIUM	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	1	0.0
CHROMIUM	**********	0.0	0.0	0	0.0	0.000	0.020	0.004	17	0.006
COBALT	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	4	0.0
COLUMBIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
COPPER	**********	0.0	0.0	0	0.0	0.001	0.050	0.013	118	0.014
DYSPROSIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
ERBIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
EUROPIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
GADOLINIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
GALLIUM	**********	0.0	0.0	0	0.0	0.001	0.010	0.004	6	0.005
GERMANIUM	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	1	0.0
GOLD	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
HAFNIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
HOLMIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
INDIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
IRIDIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
IRON	**********	0.0	0.0	0	0.0	0.001	5.000	0.262	119	0.728
LANTHANUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
LEAD	**********	0.0	0.0	0	0.0	0.001	0.500	0.032	50	0.079
LITHIUM	**********	0.0	0.0	0	0.0	0.001	0.100	0.007	85	0.015
LUTETIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
MAGNESIUM	**********	0.0	0.0	0	0.0	5.000	99999.000	2228.111	9	4405.680
MANGANESE	**********	0.0	0.0	0	0.0	0.001	0.500	0.067	112	0.123
MERCURY	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
MOLYBDENUM	**********	0.0	0.0	0	0.0	0.001	0.050	0.010	79	0.014
NEODYMIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
NICKEL	**********	0.0	0.0	0	0.0	0.001	0.070	0.011	7	0.026
OSMIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
PALLADIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
PLATINUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
POTASSIUM	**********	0.0	0.0	0	0.0	0.010	2.000	0.347	119	0.509
PRASEODYMI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0

SAMPLE ITEM RANGE AND AVERAGE

ITEM	COMBINED AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	A AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
RADIUM	**********	0.0	0.0	0	0.0	0.100	1.200	0.335	60	0.231
RHENIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
RHODIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
RUBIDIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
RUTHENIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
SAMARIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
SCANDIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
SELENIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
SILICON	**********	0.0	0.0	0	0.0	2.000	99999.000	4.897	117	2.601
SILVER	**********	0.0	0.0	0	0.0	0.000	0.100	0.008	38	0.022
SODIUM	**********	0.0	0.0	0	0.0	1.000	99999.000	6.239	88	2.758
STRONTIUM	**********	0.0	0.0	0	0.0	0.010	1.000	0.105	116	0.085
TANTALUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
TERBIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
THALLIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
THORIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
THULIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
TIN	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	15	0.0
TITANIUM	**********	0.0	0.0	0	0.0	0.001	1.000	0.029	91	0.118
TUNGSTEN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
URANIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
VANADIUM	**********	0.0	0.0	0	0.0	0.001	0.020	0.007	10	0.008
YTTERBIUM	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	5	0.0
YTTRIUM	**********	0.0	0.0	0	0.0	0.010	0.020	0.012	5	0.004
ZINC	**********	0.0	0.0	0	0.0	0.001	0.020	0.005	44	0.006
ZIRCONIUM	**********	0.0	0.0	0	0.0	0.010	0.010	0.010	2	0.0

SAMPLES IN AQUIFER = 0

SAMPLES IN AQUIFER = 148

UPPER AND LOWER AQUIFER MONITORING

SECTION 1.2.7

WET CHEMICAL AND SPECTROGRAPHIC ANALYSES, UPPER AND LOWER AQUIFER

WATER LEVEL DATA, UPPER AND LOWER AQUIFERS

EXPLANATION -- WATER QUALITY COMPUTER OUTPUT SHEETS

1. Code Hole Description Data

Job # 741-40

Assigned project number for Rio Blanco Oil Shale Project by Wright Water Engineers, Inc

X = Distance in feet, north of baseline 7200 feet Datum of the Colorado State Coordinate System

Y = Distance, in feet, east of the baseline 7200 foot Datum of the Colorado State Coordinate System

Z = Elevation in feet above sea of the core hole at ground surface

Date Drill Compl.

The date when drilling was completed on the Core Hole.

Conv. to Monitor

Date the Core Hole was converted to a Monitor Hole.

Aquifer 1:

Depth in feet to the top and bottom of the upper aquifer from G.L.

Aquifer 2:

Depth in feet to the top and bottom of the lower aquifer from G.C.

2. Sample Description Data

Date

Date water sample was collected.

Depth

Depth for Method 1: depth sample was collected during drilling.

Depth for Method 2: depth sample was collected during pumping test.

Depth for Method 3: the static water level of the hole when sampled.

Temp.

Field temperature of sample (^{o}F)

Lab Num.

Designation number assigned by the analyzing laboratory.

Method

0. Drilling soap sample
1. Drilling program sample
2. Pumping test program sample
3. Monitoring program sample
3A. Monitoring program sample, not representative of aquifer conditions

Aquif. Loc.

U Sample from upper aquifer during drilling, pumping or monitoring
L Sample from lower aquifer during pumping test or monitoring
C Sample combination of upper and lower aquifer during drilling
A Sample from alluvial aquifer

3. Wet -- Wet Chemical Analysis

Values are in milligrams per liter, except for:

Gross Alpha-- picocuries per liter
Gross Beta -- picocuries per liter
pH -- standard pH values
Conductance-- micromhos per centimeter

Negative values indicate less than minimum detectable limit indicated

0.0 value - constituent not tested for

**** - not analyzed for using wet chemical analysis

4. Spectrographic - spectrographic analysis of 67 elements

All values are in milligrams per liter

0.0 means less than minimum detectable amount

99999.000 means major amount

***** is used in Water Quality Analysis Summary to indicate an element has not been analyzed above the minimum detectable limit

JOB#-731-52 OWNER-AMOCO LOCATIONS: X- 158182.71 Y- 214994.65 Z- 7245.00
DATE DRILL COMPL- 92673 DATE CONV TO MONITOR-111474 AQUIFER 1: 420.00- 980.00FT AQUIFER 2: 1510.00-1610.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10
DATE	42775	51475	61175	71375	82875	82975	32976	32976	111176	111176
DEPTH	404.29	399.51	399.30	632.78	635.01	391.43	383.19	641.15	378.20	647.49
TEMP	53.6	55.6	57.0	65.3	64.0	49.1	53.2	57.7	52.5	61.0
LAB ID										
LAB NUM	181	429	897	1352	2481	2480	7901	7902	4335	4334
METHOD	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	L	L	U	U	L	U	L
WET										
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.100
AMMONIA	0.300	0.400	0.500	0.800	0.900	0.400	0.900	0.800	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	645.000	415.000	410.000	2780.000	445.000	520.000	610.000	955.000	720.000	2220.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	83.000	28.000	36.000	4.100	6.600	32.000	52.000	4.100	33.000	3.300
CARBONATE	-0.100	42.000	66.000	-0.100	66.000	-0.100	29.000	98.000	-0.100	84.000
CHLORIDE	8.200	7.000	14.000	75.000	34.000	7.000	5.600	43.000	55.000	125.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.600	1.100	1.100	15.000	3.900	2.500	0.200	18.000	0.300	50.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	4.100	8.600	6.700	3.000	2.800	8.500	0.200	-0.050	0.200	0.100
LEAD	0.300	0.400	0.400	2.800	0.600	0.900	-0.010	0.200	0.050	-0.010
MAGNESIUM	38.000	51.000	66.000	17.000	42.000	54.000	70.000	38.000	66.000	20.000
MERCURY	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
NITRATE	0.600	0.100	0.500	0.500	0.600	0.900	0.200	-0.100	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	1.200	2.200	4.500	11.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	21.000	20.000	15.000	14.000	5.200	19.000	26.000	3.200	29.000	9.400
SODIUM	285.000	240.000	200.000	1170.000	220.000	245.000	235.000	480.000	330.000	1020.000
SULFATE	410.000	345.000	290.000	185.000	135.000	355.000	360.000	175.000	335.000	75.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.600	0.600	0.200	0.200
ZINC	0.100	0.500	0.300	0.900	0.200	0.300	-0.100	0.200	-0.100	-0.100
GROS ALPHA	4.000	4.000	1.100	8.500	30.000	5.900	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	48.000	19.000	17.000	0.0	0.0	0.0	0.0
HARDNESS	365.000	280.000	360.000	80.000	190.000	300.000	0.0	0.0	360.000	92.000
PH	7.100	7.000	7.000	7.600	7.200	6.600	7.000	8.000	6.600	6.800
CONDUCTANC	1550.000	1350.000	1420.000	1995.000	2780.000	1300.000	1500.000	1340.000	1180.000	3300.000
DIS SOLIDS	1150.000	950.000	890.000	2850.000	735.000	980.000	1140.000	1370.000	1020.000	2290.000
MANGANESE	0.080	0.100	0.200	0.080	0.050	0.200	0.200	0.090	0.100	-0.050
ALKALINITY	530.000	374.000	394.000	2270.000	419.000	425.000	545.000	945.000	590.000	1880.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	-0.010	-0.010
STRON	2.200	0.300	0.040	4.800	0.050	0.070	0.500	1.600	0.400	2.300
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	0.020	-0.010	0.020	0.020	0.020	0.020	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.100	0.200	0.300
BORON	8.000	7.000	5.000	24.000	19.000	14.000	13.000	24.000	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.400	0.300
[illegible]IDE	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	135.000	45.000	32.000	50.000
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.083	0.017
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.200	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.200	1.000
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.700	2.400
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC										
ALUMINUM	0.100	0.100	0.100	0.010	0.050	0.001	0.010	0.010	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.500	0.200	0.200	0.500	0.200	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.001	0.010	0.005	0.005	0.005	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.020	0.050	0.020	0.020	0.010	0.010	0.500	0.100	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.001	0.0	0.0	0.0	0.0	0.050	0.010	0.0	0.0
LITHIUM	0.001	0.001	0.010	0.010	0.001	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.0	0.001	0.001	0.005	0.001	0.005	0.020	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.001	0.0	0.0	0.0	0.0	0.050	0.020	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
NIOBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	2.000	1.000	1.000	1.000	0.100	1.000	0.100	0.100	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.500	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	2.000	2.000	2.000	5.000	2.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0
SODIUM	10.000	10.000	10.000	10.000	5.000	10.000	10.000	99999.000	0.0	0.0
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.010	0.0	0.001	0.001	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.001	0.001	0.0	0.0	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-731-52 OWNER-AMOCO LOCATIONS: X- 152310.78 Y- 218712.19 Z- 6924.00
DATE DRILL COMPL-101073 DATE CONV TO MONITOR-110974 AQUIFER 1: 270.00- 400.00FT AQUIFER 2: 750.00- 920.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	42575	42875	51775	51775	61075	61075	71475	71475	82875	82875	32776
DEPTH	290.87	304.08	45.56	304.85	39.60	310.00	38.70	307.48	33.52	308.54	33.17	32.79
TEMP	55.4	58.1	46.4	57.2	50.0	57.2	49.1	62.6	54.5	59.2	53.6	48.7
LAB ID												
LAB NUM	8880	182	183	430	431	882	883	1353	1354	2483	2482	7903
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	L	L	U	L	U	L	U	L	U	L	U	U
WET												
ALUMINUM	0.600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.100	-0.100	0.200	0.200	0.400	0.400	0.400	0.020	0.300	0.200	0.400	0.500
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	295.000	310.000	260.000	260.000	170.000	305.000	225.000	330.000	190.000	290.000	370.000	315.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010
CALCIUM	20.000	16.000	13.000	15.000	10.000	16.000	12.000	11.000	9.000	11.000	24.000	31.000
CARBONATE	24.000	24.000	18.000	33.000	36.000	30.000	24.000	60.000	42.000	66.000	18.000	29.000
CHLORIDE	1.400	14.000	16.000	14.000	10.000	10.000	6.900	12.000	8.200	11.000	58.000	11.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.030
COPPER	0.090	0.100	0.100	-0.100	-0.100	-0.100	-0.010	0.200	0.800	-0.100	-0.100	-0.100
FLUORIDE	1.500	1.000	0.500	1.200	0.600	1.400	0.800	5.400	0.700	2.500	1.300	0.900
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	1.000	1.000	7.200	1.300	12.000	2.800	7.200	16.200	16.500	7.800	9.100	1.300
LEAD	0.230	0.500	0.500	0.200	1.200	-0.100	1.100	26.000	3.800	0.700	0.900	1.200
MAGNESIUM	42.000	45.000	40.000	41.000	40.000	38.000	33.000	33.000	34.000	34.000	47.000	38.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.001
NITRATE	0.100	0.500	0.600	-0.100	1.100	0.500	0.500	0.500	0.600	-0.100	2.600	0.400
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.400
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.100	-0.010	-0.010
SIL DIOXID	-0.100	-0.100	-0.100	0.600	0.800	5.700	-0.100	0.600	1.200	3.000	18.000	14.000
SODIUM	155.000	165.000	160.000	175.000	165.000	180.000	150.000	200.000	180.000	210.000	220.000	180.000
SULFATE	270.000	270.000	275.000	285.000	305.000	240.000	255.000	225.000	265.000	235.000	275.000	260.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
ZINC	0.020	0.200	1.000	0.200	0.500	0.200	0.300	10.000	1.300	0.200	0.400	0.500
GROS ALPHA	0.0	2.000	0.000	0.200	2.800	2.100	3.400	7.400	2.200	4.000	2.700	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.000	4.000	26.000	8.000	0.0
HARDNESS	225.000	225.000	195.000	205.000	190.000	200.000	165.000	165.000	165.000	165.000	250.000	0.0
PH	6.600	6.400	6.800	7.200	7.200	6.900	6.600	7.500	7.300	7.400	7.200	6.900
CONDUCTANC	900.000	965.000	975.000	1000.000	960.000	950.000	915.000	1711.000	1008.000	1000.000	1020.000	1010.000
DIS SOLIDS	660.000	690.000	660.000	690.000	830.000	670.000	600.000	725.000	650.000	870.000	850.000	720.000
MANGANESE	0.260	0.060	0.200	-0.050	0.200	0.080	0.200	0.300	0.700	0.100	0.200	0.400
TOTALINITY	260.000	275.000	250.000	237.000	170.000	275.000	204.000	319.000	189.000	294.000	315.000	305.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.060
BORON	-0.100	3.000	2.400	0.100	0.200	0.010	0.010	0.300	0.300	0.600	2.900	0.200
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0
NICKEL	0.020	0.020	0.200	-0.100	0.020	0.020	0.020	0.020	0.020	0.010	0.020	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
TIN	0.0	9.000	10.000	18.000	18.000	7.000	9.000	19.000	16.000	33.000	9.000	11.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020
AZIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.000
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.010	0.200	0.100	0.050	0.200	0.050	0.050	0.050	0.100	0.010	0.050	0.010
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.200	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.500	0.200	0.200	0.0	0.200	0.500	0.500	0.200	0.500	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.001	0.010	0.005	0.010	0.010	0.005	0.005	0.010	0.002	0.001	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.050	0.020	0.020	0.010	0.020	0.010	0.050	0.020	0.020	0.020	0.100
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010
LITHIUM	0.010	0.001	0.010	0.0	0.001	0.001	0.010	0.001	0.010	0.001	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
MANGANESE	0.010	0.005	0.001	0.001	0.001	0.0	0.001	0.001	0.005	0.005	0.001	0.010
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.001	0.005	0.0	0.001	0.0	0.0	0.001	0.001	0.0	0.010
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NIOBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	2.000	2.000	2.000	1.000	0.100	1.000	0.100	1.000	1.000	1.000	0.010
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.300	0.0	0.100	0.0	0.0	0.0	0.0	0.300	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	-0.500	2.000	5.000	5.000	2.000	5.000	5.000	2.000	2.000	2.000	2.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	10.000	10.000	5.000	5.000	10.000	5.000	10.000	10.000	5.000	10.000
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.001	0.001	0.001	0.0	0.0	0.001	0.001	0.001	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-731-52 OWNER-AMOCO LOCATIONS: X- 152310.78 Y- 218712.19 Z- 6924.00
DATE DRILL COMPL-101073 DATE CONV TO MONITOR-110974 AQUIFER 1: 270.00- 400.00FT AQUIFER 2: 750.00- 920.00FT

SAMPLES	13	14	15
DATE	32776	111276	111276
DEPTH	314.65	34.61	318.82
TEMP	56.8	48.5	57.5
LAB ID			
LAB NUM	7904	4337	4336
METHOD	3	3	3
AQUIF.LOC.	L	U	L
WET			
ALUMINUM	0.0	-0.100	-0.100
AMMONIA	0.400	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010
BICARBONAT	275.000	230.000	380.000
CADMIUM	-0.010	-0.010	-0.010
CALCIUM	7.400	6.600	4.900
CARBONATE	86.000	36.000	96.000
CHLORIDE	12.000	28.000	34.000
CHROMIUM	0.020	-0.010	0.010
COPPER	-0.100	-0.100	-0.100
FLUORIDE	0.300	0.700	42.000
HYDROXIDE	0.0	0.0	0.0
IRON	0.300	0.050	-0.050
LEAD	0.300	0.010	0.010
MAGNESIUM	28.000	33.000	23.000
MERCURY	-0.001	-0.001	-0.001
NITRATE	0.200	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100
POTASSIUM	1.700	1.700	4.500
SELENIUM	-0.010	-0.010	-0.010
SIL DIOXID	-0.100	1.900	1.200
SODIUM	185.000	180.000	315.000
SULFATE	185.000	235.000	145.000
SULFIDE	0.200	0.200	0.400
ZINC	0.300	-0.100	-0.100
GROS ALPHA	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0
HARDNESS	0.0	150.000	110.000
PH	8.000	6.900	7.400
CONDUCTANC	845.000	955.000	1050.000
DIS SOLIDS	690.000	560.000	880.000
MANGANESE	0.300	-0.050	0.100
ALKALINITY	370.000	220.000	385.000
CYANIDE	-0.010	-0.010	-0.010
BORON	0.400	0.500	0.500
BARIUM	0.0	0.0	0.0
SILVER	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0
LITHIUM	-0.100	0.100	0.100
TDS	14.000	0.0	0.0
NITRITE-N	-0.020	0.500	0.350
IODIDE	-0.020	-0.100	-0.100

SAMPLES	13	14	15
C.O.D.	92.000	30.000	30.000
PHENOLS	-0.001	-0.001	0.057
KJELDAHL N	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0
MOLYBDENUM	0.0	-0.100	-0.100
STRONTIUM	0.0	1.100	2.200
VANADIUM	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0
AMMONIA-N	0.0	0.400	0.500
DIS-ORG C	0.0	0.0	0.0
MBAS	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0
SPECTROGRAPHIC			
ALUMINUM	0.001	0.0	0.0
ANTIMONY	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0
BORON	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0
CALCIUM	10.000	0.0	0.0
CERIUM	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0
COBALT	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0
COPPER	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0
GOLD	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0
IRON	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0
LEAD	0.010	0.0	0.0
LITHIUM	0.010	0.0	0.0
LUTETIUM	0.0	0.0	0.0
MAGNESIUM	10.000	0.0	0.0
MANGANESE	0.001	0.0	0.0
MERCURY	0.0	0.0	0.0
MOLYBDENUM	0.010	0.0	0.0
NEODYMIUM	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0
NIOBIUM	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0

SAMPLES	13	14	15
PLATINUM	0.0	0.0	0.0
POTASSIUM	0.100	0.0	0.0
PRASEODYMI	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0
PRENIUM	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0
SILICON	2.000	0.0	0.0
SILVER	0.0	0.0	0.0
SODIUM	9999.000	0.0	0.0
STRONTIUM	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0
TIN	0.0	0.0	0.0
TITANIUM	0.001	0.0	0.0
TUNGSTEN	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0
ZINC	0.001	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0

JOB#-741-40 OWNER-CAMERON LOCATIONS: X- 151858.91 Y- 230034.80 Z- 6997.26
DATE DRILL COMPL- 62072 DATE CONV TO MONITOR-100874 AQUIFER 1: 220.00- 310.00FT AQUIFER 2: 940.00-1020.00FT

SAMPLES	1	2
DATE	32475	42975
DEPTH	134.81	132.02
TEMP	51.8	52.0
LAB ID		
LAB NUM	8153	9780
METHOD	3	3
AQUIF.LOC.	U	U
WET		
ALUMINUM	0.370	0.0
AMMONIA	1.000	0.250
ARSENIC	-0.010	-0.010
BICARBONAT	190.000	120.000
CADMIUM	0.004	-0.010
CALCIUM	48.000	62.000
CARBONATE	-0.100	6.000
CHLORIDE	27.000	21.000
CHROMIUM	-0.010	-0.010
COPPER	0.010	0.030
FLUORIDE	0.400	0.200
HYDROXIDE	0.0	0.0
IRON	0.410	0.310
LEAD	0.003	0.080
MAGNESIUM	27.000	12.000
MERCURY	0.045	-0.010
NITRATE	0.200	3.000
PHOSPHATE	0.100	-0.100
POTASSIUM	0.0	0.0
SELENIUM	-0.010	-0.010
SIL DIOXID	24.000	30.000
SODIUM	140.000	155.000
SULFATE	410.000	360.000
SULFIDE	0.0	0.0
ZINC	0.028	0.070
GROS ALPHA	6.100	0.0
GROSS BETA	13.000	0.0
HARDNESS	230.000	205.000
PH	6.000	6.000
CONDUCTANC	1100.000	1120.000
DIS SOLIDS	810.000	710.000
MANGANESE	0.130	0.040
ALKALINITY	155.000	104.900
CYANIDE	-0.010	-0.010
BORON	-0.010	0.200
BARIUM	-1.000	-1.000
SILVER	0.001	0.050
NICKEL	-0.001	0.020
LITHIUM	0.0	0.0
TOC	0.0	4.000
NITRITE-N	0.0	0.0
AZIDE	0.0	0.0

SAMPLES	1	2
C.O.D.	0.0	0.0
PHENOLS	0.0	0.0
KJELDAHL N	0.0	0.0
BERYLLIUM	0.0	0.0
MOLYBDENUM	0.0	0.0
STRONTIUM	0.0	0.0
VANADIUM	0.0	0.0
ORTHO PHOS	0.0	0.0
AMMONIA-N	0.0	0.0
DIS-ORG C	0.0	0.0
MBAS	0.0	0.0
TOT COLIF	0.0	0.0
FEC COLIF	0.0	0.0
5-DAY B.O.	0.0	0.0
SPECTROGRAPHIC		
ALUMINUM	0.100	0.100
ANTIMONY	0.0	0.0
ARSENIC	0.0	0.0
BARIUM	0.0	0.0
BERYLIUM	0.0	0.0
BISMUTH	0.0	0.0
BORON	0.100	0.500
CADMIUM	0.0	0.0
CALCIUM	99999.000	99999.000
CERIUM	0.0	0.0
CESIUM	0.0	0.0
CHROMIUM	0.0	0.0
COBALT	0.0	0.0
COLUMBIUM	0.0	0.0
COPPER	0.001	0.001
DYSPROSIUM	0.0	0.0
ERBIUM	0.0	0.0
EUROPIUM	0.0	0.0
GADOLINIUM	0.0	0.0
GALLIUM	0.0	0.0
GERMANIUM	0.0	0.0
GOLD	0.0	0.0
HAFNIUM	0.0	0.0
HOLMIUM	0.0	0.0
INDIUM	0.0	0.0
IRIDIUM	0.0	0.0
IRON	0.100	0.100
LANTHANUM	0.0	0.0
LEAD	0.0	0.0
LITHIUM	0.100	0.010
LUTETIUM	0.0	0.0
MAGNESIUM	99999.000	99999.000
MANGANESE	0.010	0.001
MERCURY	0.0	0.0
MOLYBDENUM	0.0	0.010
NEODYMIUM	0.0	0.0
NICKEL	0.0	0.0
NIOBIUM	0.0	0.0
PALLADIUM	0.0	0.0

SAMPLES	1	2
PLATINUM	0.0	0.0
POTASSIUM	2.000	1.000
PRASEODYMI	0.0	0.0
RADIUM	0.0	0.0
RHENIUM	0.0	0.0
RHODIUM	0.0	0.0
RUBIDIUM	0.0	0.0
RUTHENIUM	0.0	0.0
SAMARIUM	0.0	0.0
SCANDIUM	0.0	0.0
SELENIUM	0.0	0.0
SILICON	10.000	2.000
SILVER	0.0	0.0
SODIUM	99999.000	10.000
STRONTIUM	0.100	0.100
TANTALUM	0.0	0.0
TERBIUM	0.0	0.0
THALLIUM	0.0	0.0
THORIUM	0.0	0.0
THULIUM	0.0	0.0
TIN	0.0	0.0
TITANIUM	0.0	0.001
TUNGSTEN	0.0	0.0
URANIUM	0.0	0.0
VANADIUM	0.0	0.0
YTTERBIUM	0.0	0.0
YTTRIUM	0.0	0.0
ZINC	0.0	0.0
ZIRCONIUM	0.0	0.0

JOB#- OWNER-CAMERON LOCATIONS: X- 163314.86 Y- 228928.97 Z- 6656.30
DATE DRILL COMPL- 82972 DATE CONV TO MONITOR-112674 AQUIFER 1: 350.00- 440.00FT AQUIFER 2: 1375.00-1540.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32175	32175	42175	42175	51875	51875	61075	61075	71475	71475	82975	82975
DEPTH	49.00	23.79	51.10	39.07	51.28	36.71	41.00	52.90	38.13	51.61	51.85	39.05
TEMP	63.0	61.7	61.7	61.7	62.1	60.8	59.4	60.8	72.5	68.9	68.0	75.2
LAB ID												
LAB NUM	8306	8307	9782	9781	355	354	757	758	1221	1222	2484	2485
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	L	U	L	U	L	L	U	L	U	U	L
WET												
ALUMINUM	0.080	-0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.420	0.420	1.800	1.500	1.800	1.600	1.100	1.200	0.900	0.900	0.300	1.000
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	2415.000	2730.000	2590.000	2770.000	2390.000	1750.000	2390.000	2100.000	2650.000	2760.000	2410.000	2820.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.010	-0.010	-0.010	-0.010	0.010
CALCIUM	7.000	3.700	7.400	3.300	4.900	1.600	0.800	4.900	6.600	15.000	8.200	5.700
CARBONATE	190.000	340.000	140.000	300.000	255.000	690.000	710.000	335.000	360.000	100.000	66.000	235.000
CHLORIDE	52.000	49.000	65.000	61.000	59.000	67.000	69.000	55.000	14.000	69.000	51.000	62.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.010	0.070	0.040	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.100	-0.100
FLUORIDE	25.000	40.000	26.000	24.000	25.000	30.000	34.000	26.000	30.000	30.000	27.000	29.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	-0.050	1.800	0.720	-0.050	1.800	1.400	3.100	1.400	7.000	9.000	1.400
LEAD	0.020	0.020	0.300	0.900	0.100	0.600	0.200	0.100	0.100	0.300	1.200	0.800
MAGNESIUM	3.500	3.600	5.200	2.900	9.700	6.600	5.400	7.700	3.800	6.600	9.600	2.400
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	-0.010	0.740	0.200	0.100	1.700	0.200	0.300	0.700	0.400	0.200	-0.100	0.200
PHOSPHATE	0.350	0.500	-0.100	0.300	-0.100	0.300	0.400	-0.100	0.400	-0.100	0.100	0.700
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	9.500	4.400	27.000	11.000	18.000	10.000	11.000	19.000	14.000	20.000	17.000	14.000
SODIUM	1100.000	1380.000	1170.000	1360.000	1170.000	1250.000	1560.000	1080.000	1340.000	1090.000	1030.000	1320.000
SULFATE	-4.000	-4.000	72.000	75.000	50.000	60.000	30.000	30.000	100.000	100.000	30.000	15.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.150	0.640	1.000	0.900	0.600	1.100	68.000	0.700	0.300	0.700	0.030	0.900
GROS ALPHA	6.500	17.000	0.0	3.500	9.800	14.000	12.000	10.000	12.000	22.000	18.000	27.000
GROSS BETA	0.0	30.000	0.0	0.0	0.0	0.0	0.0	0.0	49.000	73.000	19.000	8.000
HARDNESS	32.000	24.000	40.000	20.000	52.000	32.000	24.000	44.000	32.000	64.000	60.000	24.000
PH	8.000	8.800	7.400	8.000	7.600	8.000	8.600	7.400	8.200	7.600	7.400	8.500
CONDUCTANC	4030.000	4950.000	4000.000	4800.000	3920.000	4800.000	5180.000	4200.000	4200.000	3815.000	3740.000	4000.000
DIS SOLIDS	2570.000	3120.000	2730.000	3200.000	2760.000	2980.000	3640.000	2590.000	3170.000	2790.000	2430.000	3070.000
MANGANESE	-0.050	-0.050	0.020	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	0.080	0.090	-0.050
ALKALINITY	2135.000	2330.000	2251.000	2515.000	2170.000	1995.000	2540.000	1975.000	2163.000	2343.000	2024.000	2500.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	3.100	3.700	3.300	0.500	4.300	3.000	3.400	3.200	3.000	3.900	2.800	2.200
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	0.000	-0.010	-0.010	-0.010	-0.010	-0.100	-0.010	-0.010	-0.010	-0.010
NICKEL	0.010	0.010	0.040	0.050	0.030	0.020	0.060	0.040	0.010	0.010	0.030	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TDS	0.0	0.0	8.000	14.000	13.000	14.000	11.000	13.000	7.000	6.000	14.000	26.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IODIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.010	0.500	0.050	0.001	0.010	0.100	0.100	0.100	0.010	0.010	0.200	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.200	0.100	0.500	0.500	0.500	0.200	0.500	0.100	0.200	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	10.000	99999.000	1.000	2.000	5.000	2.000	2.000	5.000	0.100	1.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.005	0.010	0.0	0.0	0.0	0.0	0.001	0.001	0.001	0.001	0.005	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.010	0.500	0.010	0.050	0.010	0.050	0.050	0.010	0.010	0.020	0.050	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.010	0.010	0.010	0.010	0.010	0.0	0.0	0.010	0.001	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	10.000	99999.000	1.000	1.000	1.000	1.000	1.000	1.000	0.100	0.100	99999.000	99999.000
MANGANESE	0.001	0.020	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.005	0.001
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	5.000	5.000	1.000	1.000	1.000	2.000	2.000	2.000	0.100	1.000	0.100	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.100	0.0	0.500	0.400	0.900	0.200	0.100	0.700
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	5.000	2.000	5.000	5.000	5.000	2.000	2.000	1.000	5.000	5.000
SILVER	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	5.000	10.000
STRONTIUM	0.100	0.100	0.010	0.010	0.010	0.010	0.010	0.010	0.0	0.0	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.001	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.010	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#- OWNER-CAMERON LOCATIONS: X- 163314.86 Y- 228928.97 Z- 6656.30
DATE DRILL COMPL- 82972 DATE CONV TO MONITOR-112674 AQUIFER 1: 350.00- 440.00FT AQUIFER 2: 1375.00-1540.00FT

SAMPLES	13	14	15	16
DATE	32476	32476	111076	111076
DEPTH	52.80	44.21	54.34	49.18
TEMP	60.8	69.4	62.0	65.5
LAB ID				
LAB NUM	7905	7906	4339	4338
METHOD	3	3	3	3
AQUIF.LOC.	U	L	U	L
WET				
ALUMINUM	0.0	0.0	0.200	0.200
AMMONIA	1.400	1.600	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010
BICARBONAT	2465.000	2730.000	2800.000	3310.000
CADMIUM	0.010	0.010	-0.010	0.010
CALCIUM	6.500	49.000	8.800	5.200
CARBONATE	225.000	270.000	170.000	270.000
CHLORIDE	61.000	65.000	59.000	85.000
CHROMIUM	-0.010	-0.010	0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100
FLUORIDE	23.000	28.000	21.000	33.000
HYDROXIDE	0.0	0.0	0.0	0.0
IRON	0.100	-0.050	0.100	0.070
LEAD	0.500	0.100	0.030	0.030
MAGNESIUM	11.000	1.900	9.600	6.800
MERCURY	-0.001	-0.010	-0.001	0.002
NITRATE	0.300	-0.100	0.0	0.0
PHOSPHATE	0.100	1.000	-0.100	0.400
POTASSIUM	2.500	3.300	11.000	15.000
SELENIUM	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	20.000	12.000	20.000	16.000
SODIUM	1127.000	1250.000	1[illegible]0.000	1550.000
SULFATE	19.000	10.000	25.000	20.000
SULFIDE	0.030	0.300	0.600	0.400
ZINC	0.700	0.400	-0.100	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0
HARDNESS	0.0	0.0	0.000	36.000
PH	7.600	7.600	7.100	7.400
CONDUCTANCE	3966.000	4250.000	3[illegible]0.000	4650.000
DIS SOLIDS	2[illegible].000	2930.000	2[illegible].000	3240.000
MANGANESE	0.100	0.070	0.070	-0.050
ALKALINITY	2590.000	2880.000	2270.000	2930.000
CYANIDE	-0.010	-0.010	-0.010	-0.010
[illegible]	1.900	2.500	3.200	4.700
[illegible]IUM	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
[illegible]EL	0.0	0.0	0.0	0.0
LITHIUM	-0.100	-0.100	-0.100	-0.100
[illegible]	19.000	15.000	0.0	0.0
NITRITE-N	-0.020	-0.020	0.500	0.000
NITRIDE	-0.020	-0.020	-0.100	-0.100

SAMPLES	13	14	15	16
C.O.D.	47.000	30.000	20.000	23.000
PHENOLS	-0.001	-0.001	-0.001	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	3.900	0.900
VANADIUM	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	1.800	3.200
DIS-ORG C	0.0	0.0	0.0	0.0
MEAS	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0
SPECTROGRAPHIC				
ALUMINUM	0.001	0.001	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0
CALCIUM	0.0	0.0	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0
COPPER	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0
IRON	0.010	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0
LEAD	0.001	0.001	0.0	0.0
LITHIUM	0.001	0.001	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0
MAGNESIUM	9999.000	9999.000	0.0	0.0
MANGANESE	0.001	0.001	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.010	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16
PLATINUM	0.0	0.0	0.0	0.0
POTASSIUM	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0
SILICON	2.000	2.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
SODIUM	10.000	10.000	0.0	0.0
STRONTIUM	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0
ZINC	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0

JOB#- OWNER-CAMERO LOCATIONS: X- 158619.60 Y- 223358.84 Z- 5741.20
DATE DRILL COMPL- 73172 DATE CONV TO MONITOR-101874 AQUIFER 1: 220.00- 440.00FT AQUIFER 2: 820.00-1100.00FT

SAMPLES	1
DATE	42575
DEPTH	27.88
TEMP	50.0
LAB ID	
LAB NUM	9784
METHOD	3
AQUIF.LOC.	U
WET	
ALUMINUM	0.0
AMMONIA	0.250
ARSENIC	-0.010
BICARBONAT	340.000
CADMIUM	-0.010
CALCIUM	38.000
CARBONATE	36.000
CHLORIDE	4.300
CHROMIUM	-0.010
COPPER	0.040
FLUORIDE	0.900
HYDROXIDE	0.0
IRON	1.400
LEAD	0.100
MAGNESIUM	56.000
MERCURY	-0.010
NITRATE	0.150
PHOSPHATE	-0.100
POTASSIUM	0.0
SELENIUM	-0.010
SIL DIOXID	9.400
SODIUM	150.000
SULFATE	270.000
SULFIDE	0.0
ZINC	0.130
GROS ALPHA	1.700
GROSS BETA	0.0
HARDNESS	325.000
PH	6.400
CONDUCTANC	1140.000
DIS SOLIDS	730.000
MANGANESE	0.240
ALKALINITY	310.000
CYANIDE	-0.010
BORON	-0.100
BARIUM	-1.000
SILVER	0.000
NICKEL	0.030
LITHIUM	0.0
[illegible]	4.000
NIT-ITR-N	0.0
PERMILL	0.0

SAMPLES	1
C.O.D.	0.0
PHENOLS	0.0
KJELDAHL N	0.0
BERYLLIUM	0.0
MOLYBDENUM	0.0
STRONTIUM	0.0
VANADIUM	0.0
ORTHO PHOS	0.0
AMMONIA-N	0.0
DIS-ORG C	0.0
MBAS	0.0
TOT COLIF	0.0
FEC COLIF	0.0
5-DAY B.O.	0.0

SPECTROGRAPHIC

ALUMINUM	0.500
ANTIMONY	0.0
ARSENIC	0.0
BARIUM	0.0
BERYLIUM	0.0
BISMUTH	0.0
BORON	0.500
CADMIUM	0.0
CALCIUM	99999.000
CERIUM	0.0
CESIUM	0.0
CHROMIUM	0.0
COBALT	0.0
COLUMBIUM	0.0
COPPER	0.001
DYSPROSIUM	0.0
ERBIUM	0.0
EUROPIUM	0.0
GADOLINIUM	0.0
GALLIUM	0.0
GERMANIUM	0.0
GOLD	0.0
HAFNIUM	0.0
HOLMIUM	0.0
INDIUM	0.0
IRIDIUM	0.0
IRON	0.020
LANTHANUM	0.0
LEAD	0.0
LITHIUM	0.001
LUTETIUM	0.0
MAGNESIUM	99999.000
MANGANESE	0.001
MERCURY	0.0
MOLYBDENUM	0.010
NEODYMIUM	0.0
NICKEL	0.0
NIOBIUM	0.0
PALLADIUM	0.0

SAMPLES 1

PLATINUM	0.0
POTASSIUM	2.000
PRASEODYMI	0.0
RADIUM	0.0
RHENIUM	0.0
RHODIUM	0.0
RUBIDIUM	0.0
RUTHENIUM	0.0
SAMARIUM	0.0
SCANDIUM	0.0
SELENIUM	0.0
SILICON	2.000
SILVER	0.0
SODIUM	5.000
STRONTIUM	0.100
TANTALUM	0.0
TERBIUM	0.0
THALLIUM	0.0
THORIUM	0.0
THULIUM	0.0
TIN	0.0
TITANIUM	0.010
TUNGSTEN	0.0
URANIUM	0.0
VANADIUM	0.0
YTTERBIUM	0.0
YTTRIUM	0.0
ZINC	0.001
ZIRCONIUM	0.0

JOB#- OWNER-CAMERON LOCATIONS: X- 152519.20 Y- 226697.70 Z- 7181.91
DATE DRILL COMPL- 81472 DATE CONV TO MONITOR-102474 AQUIFER 1: 200.00- 560.00FT AQUIFER 2: 1040.00-1360.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	33175	42675	51575	61075	71475	71475	83075	83075	32676	32676	111476	111476
DEPTH	267.14	263.33	262.34	264.50	565.21	262.31	261.03	567.10	242.22	572.19	251.68	378.44
TEMP	51.8	53.6	53.6	52.7	62.2	55.4	56.3	61.2	48.6	59.2	51.0	60.5
LAB ID												
LAB NUM	8692	9786	357	760	1223	1224	2486	2487	7907	7908	4341	4340
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L	U	L	U	L
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
AMMONIA	0.200	0.120	0.300	0.200	0.700	0.200	0.300	9.600	1.000	0.700	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	660.000	560.000	700.000	640.000	1330.000	645.000	650.000	610.000	445.000	815.000	635.000	695.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	150.000	155.000	185.000	170.000	15.000	145.000	105.000	8.200	49.000	4.900	110.000	4.900
CARBONATE	-0.100	-0.100	-0.100	-0.100	78.000	-0.100	-0.100	48.000	-0.100	35.000	24.000	110.000
CHLORIDE	9.700	11.000	14.000	6.900	41.000	21.000	14.000	11.000	14.000	19.000	41.000	41.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.010	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.100	0.100	0.200	0.100	30.000	0.300	0.200	4.800	3.700	16.000	0.100	14.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	1.400	-0.050	8.100	2.500	8.300	8.800	6.000	-0.050	-0.050	11.000	0.100
LEAD	0.160	0.140	0.060	0.030	0.060	0.020	0.400	0.900	0.300	0.060	0.040	0.020
MAGNESIUM	55.000	40.000	7.900	48.000	13.000	23.000	31.000	17.000	79.000	18.000	96.000	18.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
NITRATE	-0.100	4.300	0.400	0.600	2.000	1.600	0.200	0.200	6.500	-0.100	0.0	0.0
PHOSPHATE	-0.100	-0.100	0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.900	1.100	3.700	3.700
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	57.000	55.000	53.000	54.000	13.000	49.000	54.000	6.000	27.000	60.000	46.000	8.100
SODIUM	180.000	160.000	250.000	170.000	650.000	250.000	290.000	285.000	180.000	400.000	155.000	390.000
SULFATE	345.000	330.000	385.000	330.000	125.000	350.000	370.000	105.000	370.000	85.000	310.000	60.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.600	1.300	0.500	0.300
ZINC	-0.010	0.050	0.020	-0.100	0.100	0.500	0.100	0.200	0.400	0.200	-0.100	-0.100
GROS ALPHA	0.0	0.700	6.000	1.800	6.800	8.900	2.200	1.500	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.000	0.0	0.0	0.0	0.0
HARDNESS	610.000	550.000	495.000	615.000	92.000	450.000	390.000	92.000	0.0	0.0	670.000	84.000
PH	6.400	6.500	6.600	6.400	7.200	6.800	6.200	6.600	6.600	7.600	6.000	6.800
CONDUCTANC	1520.000	1560.000	1440.000	1510.000	1829.000	1472.000	1420.000	920.000	1360.000	1070.000	1530.000	1500.000
DIS SOLIDS	1120.000	1030.000	1420.000	1100.000	1620.000	1160.000	820.000	790.000	1030.000	955.000	990.000	905.000
MANGANESE	0.150	0.070	-0.050	0.070	0.070	0.090	0.100	0.200	0.200	0.100	0.400	0.100
ALKALINITY	540.000	460.000	575.000	525.000	1154.000	530.000	530.000	539.000	365.000	725.000	540.000	660.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.100	0.010	-0.010	-0.010
BORON	0.400	1.700	1.000	0.200	1.500	0.500	0.600	0.400	0.200	0.100	0.200	0.900
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	0.100	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	0.030	0.030	0.010	0.020	0.010	0.010	0.020	-0.010	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	0.100	-0.100	0.200
TOC	0.0	5.000	8.000	4.000	17.000	7.000	9.000	8.000	14.000	15.000	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.600	0.500
TANNIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.000	15.000	20.000	12.000
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	-0.001	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.400	0.800
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.200	0.900
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	1.000	0.100	0.100	0.001	0.100	0.050	0.010	0.010	0.010	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.500	0.100	0.200	0.200	0.500	0.200	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	1.000	99999.000	99999.000	10.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.001	0.010	0.001	0.001	0.010	0.010	0.001	0.010	0.010	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.010	0.010	0.010	0.010	0.050	0.020	0.020	0.100	0.100	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.010	0.0	0.0
LITHIUM	0.0	0.001	0.0	0.001	0.010	0.001	0.010	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	0.100	99999.000	99999.000	5.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.200	0.001	0.001	0.0	0.0	0.001	0.010	0.001	0.010	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.010	0.0	0.001	0.0	0.001	0.001	0.001	0.001	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	1.000	0.100	1.000	1.000	1.000	1.000	1.000	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.090	0.100	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	5.000	2.000	2.000	5.000	5.000	5.000	2.000	5.000	0.0	0.0
SILVER	0.001	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	5.000	2.000	5.000	99999.000	5.000	10.000	99999.000	10.000	10.000	0.0	0.0
STRONTIUM	0.001	0.100	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.010	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#- OWNER-CAMERON LOCATIONS: X- 152408.20 Y- 224462.00 Z- 6917.86
DATE DRILL COMPL- 73072 DATE CONV TO MONITOR-102374 AQUIFER 1: 150.00- 300.00FT AQUIFER 2: 800.00- 880.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32375	32375	42275	42275	51875	51875	61075	61075	71475	71475	82775	82775
DEPTH	53.96	280.08	296.60	53.82	294.25	52.93	297.50	51.00	46.45	295.70	45.49	296.44
TEMP	51.8	54.5	57.2	54.2	56.3	53.6	56.8	53.4	54.5	59.9	52.0	57.6
LAB ID												
LAB NUM	8163	8164	9787	9788	358	359	761	762	1226	1225	2488	2489
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	L	L	U	L	U	L	U	U	L	U	L
WET												
ALUMINUM	1.000	0.110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.850	2.000	-0.100	0.200	0.300	0.200	0.200	0.200	0.400	0.500	0.300	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	560.000	525.000	440.000	530.000	480.000	575.000	380.000	380.000	545.000	370.000	500.000	450.000
CADMIUM	-0.001	0.006	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	150.000	30.000	37.000	135.000	22.000	52.000	20.000	115.000	66.000	17.000	39.000	14.000
CARBONATE	-0.100	-0.100	24.000	-0.100	29.000	-0.100	78.000	78.000	-0.100	78.000	-0.100	36.000
CHLORIDE	11.000	11.000	8.600	11.000	11.000	12.000	6.900	14.000	14.000	14.000	8.500	5.600
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.030	0.020	-0.010	-0.010	-0.100	-0.100	-0.100	0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	3.600	4.000	1.800	0.400	2.300	0.400	2.800	0.200	0.500	4.300	0.300	3.300
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	3.400	3.000	0.660	0.910	1.200	2.500	2.200	8.800	8.900	7.800	8.700	4.500
LEAD	0.003	0.004	0.100	0.110	0.060	0.600	0.060	0.060	0.200	0.600	0.800	0.300
MAGNESIUM	36.000	33.000	20.000	45.000	23.000	82.000	20.000	29.000	62.000	13.000	54.000	14.000
MERCURY	0.005	0.001	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	0.300	-0.100	0.300	0.500	1.400	-0.100	0.200	0.200	0.300	0.900	0.300	0.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	36.000	11.000	13.000	4.700	13.000	48.000	13.000	43.000	43.000	14.000	36.000	13.000
SODIUM	200.000	210.000	180.000	130.000	225.000	210.000	225.000	190.000	200.000	245.000	210.000	215.000
SULFATE	410.000	190.000	170.000	310.000	160.000	360.000	125.000	285.000	300.000	130.000	305.000	100.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	-0.100	0.200	0.060	0.040	0.100	0.100	0.100	0.200	0.100	2.100	0.600	0.100
GROS ALPHA	1.200	1.500	0.0	0.900	0.500	4.500	3.900	1.400	0.800	1.700	2.200	3.400
GROSS BETA	0.0	19.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.000	30.000
HARDNESS	520.000	210.000	175.000	520.000	150.000	465.000	130.000	410.000	420.000	96.000	320.000	92.000
PH	6.400	6.000	6.600	6.400	6.800	6.800	7.000	6.200	6.900	7.100	6.800	7.000
CONDUCTANC	1360.000	1050.000	1100.000	1400.000	1010.000	1300.000	1020.000	1350.000	1365.000	979.000	1120.000	940.000
DIS SOLIDS	1120.000	750.000	670.000	900.000	720.000	1050.000	630.000	950.000	960.000	750.000	910.000	630.000
MANGANESE	0.190	0.120	0.050	0.070	-0.050	-0.010	0.050	0.100	0.100	0.070	0.300	0.090
ALKALINITY	460.000	430.000	360.000	435.000	419.000	470.000	374.000	374.000	445.000	869.000	410.000	399.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.010	-0.010	1.900	0.470	0.500	0.400	0.400	0.200	0.400	0.200	0.200	0.200
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.001	-0.001	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	-0.001	-0.001	0.030	0.020	0.030	0.010	-0.010	0.020	-0.010	-0.010	0.020	0.010
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	0.0	4.000	7.000	7.000	5.000	3.000	4.000	19.000	7.000	20.000	10.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.100	0.500	1.000	1.000	1.000	0.010	0.500	0.100	0.010	0.010	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.001	0.010	0.0	0.001	0.0	0.001	0.0	0.010	0.001	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.100	0.500	0.500	0.500	1.000	0.200	0.500	0.200	0.500	0.500	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.010	0.010	0.005	0.020	0.010	0.005	0.005	0.001	0.010	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	1.000	0.100	0.050	0.500	0.050	0.200	0.010	0.500	0.100	0.010	0.050	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.001	0.001	0.001	0.010	0.010	0.0	0.001	0.0	0.010	0.001	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	0.0	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000
MANGANESE	0.020	0.010	0.005	0.010	0.010	0.010	0.0	0.001	0.001	0.001	0.005	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.005	0.001	0.001	0.010	0.010	0.010	0.0	0.001	0.001	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	5.000	0.100	1.000	1.000	0.100	2.000	0.100	0.100	1.000	1.000	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	2.000	2.000	5.000	5.000	5.000	5.000	2.000	2.000	2.000	2.000
SILVER	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	10.000	5.000	2.000	5.000	10.000	5.000	99999.000	2.000	2.000	10.000	10.000	10.000
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.010	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.005	0.005	0.001	0.005	0.010	0.020	0.001	0.010	0.001	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.010	0.001	0.001	0.010	0.010	0.0	0.001	0.001	0.0	0.0	0.001
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#- OWNER-CAMERON LOCATIONS: X- 152468.20 Y- 224462.00 Z- 6917.86
DATE DRILL COMPL- 73072 DATE CONV TO MONITOR-102374 AQUIFER 1: 150.00- 300.00FT AQUIFER 2: 800.00- 880.00FT

SAMPLES	13	14	15	16
DATE	32476	32476	111276	111276
DEPTH	51.30	302.97	49.39	309.09
TEMP	51.4	57.2	50.5	57.0
LAB ID				
LAB NUM	7909	7910	4343	4342
METHOD	3	3	3	3
AQUIF.LOC.	U	L	U	L
WET				
ALUMINUM	0.0	0.0	-0.100	0.100
AMMONIA	0.200	0.300	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010
BICARBONAT	410.000	455.000	330.000	670.000
CADMIUM	0.010	-0.010	-0.010	-0.010
CALCIUM	35.000	6.600	54.000	21.000
CARBONATE	-0.100	29.000	-0.100	72.000
CHLORIDE	14.000	6.900	55.000	41.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.400	4.300	0.200	20.000
HYDROXIDE	0.0	0.0	0.0	0.0
IRON	0.200	0.060	30.000	0.100
LEAD	0.020	0.020	0.020	0.020
MAGNESIUM	69.000	8.700	50.000	19.000
MERCURY	-0.001	-0.001	0.001	-0.001
NITRATE	-0.100	-0.100	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100
POTASSIUM	-1.000	-1.000	2.700	3.300
SELENIUM	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	15.000	13.000	15.000	16.000
SODIUM	140.000	225.000	130.000	340.000
SULFATE	275.000	55.000	250.000	60.000
SULFIDE	0.300	0.600	-0.100	2.800
ZINC	0.200	0.200	-0.100	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0
HARDNESS	0.0	0.0	340.000	130.000
PH	6.900	7.300	6.100	6.600
CONDUCTANC	1430.000	1070.000	1050.000	1160.000
DIS SOLIDS	755.000	540.000	640.000	775.000
MANGANESE	0.070	0.070	1.700	-0.050
ALKALINITY	335.000	420.000	270.000	605.000
CYANIDE	-0.010	-0.010	-0.010	-0.010
BORON	0.200	0.200	0.400	0.500
BARIUM	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
LITHIUM	-0.100	-0.100	-0.100	-0.100
DOC	13.000	9.000	0.0	0.0
NITRITE-N	-0.020	-0.020	0.000	0.400
FERROUS	0.060	0.070	0.000	0.0

SAMPLES	13	14	15	16
C.O.D.	30.000	9.900	22.000	18.000
PHENOLS	-0.001	-0.001	-0.001	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	3.500	1.200
VANADIUM	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.200	0.500
DIS-ORG C	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0
SPECTROGRAPHIC				
ALUMINUM	0.050	0.010	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0
COPPER	0.020	0.010	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0
IRON	0.500	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0
LEAD	0.020	0.020	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	0.0	0.0
MANGANESE	0.050	0.001	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.010	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16
PLATINUM	0.0	0.0	0.0	0.0
POTASSIUM	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0
SILICON	2.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
SODIUM	10.000	10.000	0.0	0.0
STRONTIUM	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0

JOB#- OWNER-CAMERON LOCATIONS: X- 157063.10 Y- 227185.70 Z- 6771.00
DATE DRILL COMPL- 91072 DATE CONV TO MONITOR-110174 AQUIFER 1: 120.00- 510.00FT AQUIFER 2: 980.00-1260.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	42275	51875	61075	71475	71475	82775	82775	32476	32476	111276	111276
DEPTH	53.25	53.82	52.93	47.30	152.03	44.89	42.95	153.00	35.50	158.87	33.71	164.67
TEMP	46.9	50.9	49.1	48.7	57.6	50.9	50.5	53.2	48.7	51.4	47.5	54.0
LAB ID												
LAB NUM	8694	9790	361	764	1227	1228	2490	2491	7911	7912	4345	4344
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L	U	L	U	L
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.100
AMMONIA	0.200	-0.100	0.200	0.200	0.500	0.400	0.200	0.500	0.400	0.200	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	470.000	450.000	520.000	340.000	840.000	420.000	490.000	610.000	440.000	490.000	195.000	695.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.001	-0.010	-0.010	-0.010
CALCIUM	66.000	59.000	48.000	76.000	9.000	60.000	53.000	8.200	29.000	6.600	11.000	4.900
CARBONATE	-0.100	-0.100	-0.100	54.000	96.000	42.000	-0.100	90.000	-0.100	115.000	60.000	36.000
CHLORIDE	-1.000	14.000	12.000	14.000	14.000	21.000	1.300	8.500	11.000	14.000	28.000	41.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.030	-0.010	-0.010
COPPER	-0.010	-0.010	-0.100	0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.160	0.300	0.200	0.200	13.000	0.200	0.200	9.000	0.600	7.200	0.400	8.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.220	1.500	1.000	7.900	1.700	8.200	8.600	6.600	0.070	0.300	0.090	0.100
LEAD	0.320	0.270	0.400	0.300	0.100	0.200	0.500	0.400	-0.010	0.200	0.020	0.010
MAGNESIUM	74.000	81.000	73.000	70.000	12.000	86.000	56.000	14.000	91.000	22.000	49.000	14.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
NITRATE	-0.100	0.550	-0.100	0.200	0.300	0.300	0.600	1.100	-0.100	-0.100	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	0.200	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.100	1.300	5.000	3.700
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	30.000	17.000	30.000	17.000	16.000	33.000	32.000	17.000	21.000	7.000	5.600	11.000
SODIUM	130.000	120.000	190.000	140.000	430.000	150.000	200.000	310.000	110.000	230.000	115.000	330.000
SULFATE	315.000	290.000	360.000	370.000	65.000	300.000	340.000	50.000	285.000	25.000	190.000	60.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.600	-0.100	0.300	6.500
ZINC	0.020	0.170	0.100	0.500	0.100	1.200	0.300	0.500	1.100	0.500	-0.100	-0.100
GROS ALPHA	0.0	0.0	2.900	3.100	1.500	6.500	5.400	6.600	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.000	0.0	0.0	0.0	0.0
HARDNESS	470.000	480.000	420.000	475.000	72.000	505.000	365.000	76.000	0.0	0.0	230.000	72.000
PH	6.400	6.200	6.400	6.200	7.400	7.000	6.400	7.400	7.000	8.000	7.100	1120.000
CONDUCTANC	1170.000	1180.000	1260.000	1230.000	1557.000	1541.000	1230.000	1175.000	1200.000	1140.000	810.000	7.100
DIS SOLIDS	850.000	800.000	970.000	910.000	1070.000	910.000	930.000	810.000	790.000	700.000	530.000	750.000
MANGANESE	-0.050	0.160	-0.050	0.200	-0.050	0.100	0.200	0.070	0.100	0.030	-0.050	-0.050
ALKALINITY	385.000	370.000	425.000	324.000	268.000	379.000	400.000	574.000	360.000	490.000	210.000	600.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.200	2.100	0.400	-0.010	0.900	1.600	0.500	0.500	0.600	-0.100	0.100	0.500
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	0.040	0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	0.030	0.020	0.010	0.010	-0.010	0.010	0.010	0.010	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100
[illegible]	0.0	7.000	7.000	8.000	14.000	14.000	14.000	8.000	9.000	12.000	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.200	-0.100
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.400	-0.020	-0.100	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.000	50.000	25.000	33.000
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.016	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.600	2.900
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.200	0.800
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.100	1.000	0.100	0.010	0.100	0.050	0.010	0.020	0.020	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.200	0.200	0.500	0.500	0.100	0.200	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	0.0	99999.000	1.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.001	0.010	0.0	0.010	0.005	0.010	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.200	0.500	0.200	0.020	0.010	0.200	0.010	0.050	0.050	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.050	0.020	0.0	0.0
LITHIUM	0.0	0.0	0.001	0.001	0.0	0.001	0.001	0.001	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	1.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.100	0.005	0.010	0.001	0.0	0.005	0.001	0.005	0.001	0.001	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.001	0.0	0.010	0.0	0.001	0.0	0.0	0.010	0.010	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.500	1.000	0.100	0.100	1.000	1.000	0.100	0.100	0.010	0.100	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.100	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	2.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	5.000	2.000	2.000	99999.000	5.000	5.000	5.000	10.000	99999.000	0.0	0.0
STRONTIUM	0.0	0.100	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.010	0.001	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.010	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 149639.50 Y- 227281.60 Z- 7247.00
DATE DRILL COMPL- 82474 DATE CONV TO MONITOR-111274 AQUIFER 1: 260.00- 450.00FT AQUIFER 2: 900.00-1230.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	33175	42675	51575	61075	71775	71775	71775	83075	83075	32676	32676	111476
DEPTH	245.59	245.89	245.71	246.30	245.99	602.19	245.99	244.44	602.52	246.28	601.64	243.92
TEMP	51.8	53.6	54.5	53.4	55.4	64.4	56.3	56.8	64.8	53.6	61.7	52.0
LAB ID												
LAB NUM	8696	9792	363	766	1230	1231	1232	2492	2565	7913	7914	4303
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	U	L	U	U	L	U	L	U
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
AMMONIA	0.0	0.550	0.200	0.200	0.300	0.600	0.200	0.200	0.600	0.200	0.900	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	445.000	440.000	490.000	400.000	450.000	1010.000	490.000	500.000	1000.000	460.000	700.000	380.000
CADMIUM	-0.010	-0.010	-0.010	0.100	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020
CALCIUM	34.000	120.000	140.000	87.000	59.000	28.000	62.000	33.000	19.000	120.000	39.000	57.000
CARBONATE	-0.100	-0.100	-0.100	54.000	18.000	66.000	-0.100	-0.100	48.000	-0.100	-0.100	-0.100
CHLORIDE	8.300	2.800	14.000	6.900	21.000	41.000	14.000	7.000	34.000	28.000	28.000	-0.100
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.030	0.030	-0.010
COPPER	-0.010	-0.010	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.200	0.300	0.200	0.200	0.200	17.000	0.300	0.300	22.000	0.200	6.800	0.200
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.230	5.000	4.800	8.500	8.600	0.800	8.200	7.700	1.400	0.600	0.200	-0.050
LEAD	0.060	-0.010	0.070	0.080	0.200	0.100	0.200	0.300	0.400	0.060	0.090	0.010
MAGNESIUM	54.000	38.000	46.000	50.000	54.000	28.000	48.000	62.000	33.000	54.000	40.000	59.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001
NITRATE	-0.100	0.300	0.100	0.200	0.300	0.500	0.400	1.000	0.400	-0.100	-0.100	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.600	1.000	1.500
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	32.000	32.000	32.000	35.000	46.000	16.000	38.000	41.000	16.000	27.000	18.000	20.000
SODIUM	180.000	110.000	140.000	155.000	195.000	480.000	190.000	220.000	420.000	32.000	400.000	95.000
SULFATE	225.000	285.000	350.000	275.000	290.000	145.000	280.000	345.000	120.000	290.000	185.000	210.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100
ZINC	-0.010	0.170	-0.100	3.600	0.100	0.200	0.200	0.100	0.100	0.400	0.200	-0.100
GROS ALPHA	0.0	0.0	6.900	5.400	4.000	8.700	3.300	10.000	3.300	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.000	0.0	0.0	0.0
HARDNESS	310.000	455.000	540.000	465.000	370.000	185.000	350.000	335.000	185.000	0.0	0.0	385.000
PH	6.400	6.400	7.000	6.400	6.800	7.200	6.800	6.400	7.100	6.600	7.000	6.800
CONDUCTANC	1110.000	1390.000	1210.000	1375.000	1216.000	1955.000	1219.000	1195.000	1970.000	1650.000	1680.000	840.000
DIS SOLIDS	730.000	810.000	970.000	870.000	910.000	1320.000	890.000	960.000	1240.000	860.000	890.000	665.000
MANGANESE	0.300	0.170	-0.050	0.200	0.100	-0.050	0.100	0.090	-0.050	0.200	-0.050	-0.050
ALKALINITY	355.000	360.000	400.000	369.000	385.000	879.000	400.000	410.000	859.000	380.000	570.000	310.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.300	0.100	0.200	0.200	0.200	1.200	0.700	0.100	2.400	-0.100	-0.100	0.200
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-0.100	-1.000	-1.000	0.0	0.0	0.0
SILVER	0.100	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0
NICKEL	0.020	0.010	0.020	0.020	0.010	-0.010	0.030	0.010	0.040	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100
TOC	0.0	5.000	10.000	4.000	8.000	8.000	22.000	10.000	6.000	1.600	7.500	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.300
PEROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.500	-0.020	-0.100

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.000	5.000	12.800
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.300
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.800
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.500	0.010	0.500	0.010	0.010	0.100	0.010	0.010	0.010	0.001	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.100	0.500	0.500	0.200	0.500	0.200	0.200	0.500	0.500	0.200	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	10.000	99999.000	99999.000	99999.000	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.001	0.001	0.005	0.010	0.001	0.001	0.001	0.010	0.001	0.001	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.200	1.000	0.020	0.010	0.200	0.020	0.050	0.010	0.050	0.010	0.010	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.050	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.010	0.010	0.0
LITHIUM	0.0	0.0	0.001	0.001	0.0	0.010	0.0	0.0	0.001	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	2.000	99999.000	10.000	99999.000	99999.000	99999.000	0.0
MANGANESE	0.0	0.100	0.010	0.0	0.005	0.001	0.001	0.001	0.010	0.001	0.001	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.020	0.0	0.0	0.001	0.0	0.0	0.001	0.001	0.010	0.010	0.0
NIOBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.500	0.100	0.500	0.100	0.100	1.000	0.100	1.000	0.0	0.010	0.010	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.800	0.200	0.0	0.0	0.0	0.200	0.200	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	20.000	2.000	5.000	5.000	5.000	2.000	5.000	5.000	2.000	5.000	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
SODIUM	99999.000	99999.000	5.000	5.000	2.000	99999.000	2.000	10.000	5.000	10.000	10.000	0.0
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.010	0.100	0.100	0.100	0.100	0.100	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.010	0.0	0.001	0.010	0.0	0.010	0.005	0.001	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 149639.50 Y- 227281.60 Z- 7247.00
DATE DRILL COMPL- 82474 DATE CONV TO MONITOR-111274 AQUIFER 1: 260.00- 450.00FT AQUIFER 2: 900.00-1230.00FT

SAMPLES	13
DATE	111476
DEPTH	502.02
TEMP	58.0
LAB ID	
LAB NUM	4302
METHOD	3
AQUIF.LOC.	L
WET	
ALUMINUM	0.300
AMMONIA	0.700
ARSENIC	-0.010
BICARBONAT	550.000
CADMIUM	-0.010
CALCIUM	43.000
CARBONATE	-0.100
CHLORIDE	6.900
CHROMIUM	0.010
COPPER	-0.100
FLUORIDE	3.100
HYDROXIDE	0.0
IRON	-0.050
LEAD	-0.010
MAGNESIUM	40.000
MERCURY	-0.001
NITRATE	0.0
PHOSPHATE	0.100
POTASSIUM	1.300
SELENIUM	-0.010
SIL DIOXID	27.000
SODIUM	205.000
SULFATE	220.000
SULFIDE	-0.100
ZINC	-0.100
GROS ALPHA	0.0
GROSS BETA	0.0
HARDNESS	270.000
PH	6.200
CONDUCTANC	1270.000
DIS SOLIDS	815.000
MANGANESE	0.060
ALKALINITY	450.000
CYANIDE	-0.010
TORON	0.300
RADIUM	0.0
SILVER	0.0
NICKEL	0.0
LITHIUM	-0.100
[illegible]	0.0
NITRITE-N	0.300
BROMIDE	-0.100

SAMPLES	13
C.O.D.	7.900
PHENOLS	-0.001
KJELDAHL N	0.0
BERYLLIUM	0.0
MOLYBDENUM	-0.100
STRONTIUM	3.500
VANADIUM	0.0
ORTHO PHOS	0.0
AMMONIA-N	0.0
DIS-ORG C	0.0
MBAS	0.0
TOT COLIF	0.0
FEC COLIF	0.0
5-DAY B.O.	0.0

SPECTROGRAPHIC

ALUMINUM	0.0
ANTIMONY	0.0
ARSENIC	0.0
BARIUM	0.0
BERYLIUM	0.0
BISMUTH	0.0
BORON	0.0
CADMIUM	0.0
CALCIUM	0.0
CERIUM	0.0
CESIUM	0.0
CHROMIUM	0.0
COBALT	0.0
COLUMBIUM	0.0
COPPER	0.0
DYSPROSIUM	0.0
ERBIUM	0.0
EUROPIUM	0.0
GADOLINIUM	0.0
GALLIUM	0.0
GERMANIUM	0.0
GOLD	0.0
HAFNIUM	0.0
HOLMIUM	0.0
INDIUM	0.0
IRIDIUM	0.0
IRON	0.0
LANTHANUM	0.0
LEAD	0.0
LITHIUM	0.0
LUTETIUM	0.0
MAGNESIUM	0.0
MANGANESE	0.0
MERCURY	0.0
MOLYBDENUM	0.0
NEODYMIUM	0.0
NICKEL	0.0
OSMIUM	0.0
PALLADIUM	0.0

SAMPLES 13

PLATINUM	0.0
POTASSIUM	0.0
PRASEODYMI	0.0
RADIUM	0.0
RHENIUM	0.0
RHODIUM	0.0
RUBIDIUM	0.0
RUTHENIUM	0.0
SAMARIUM	0.0
SCANDIUM	0.0
SELENIUM	0.0
SILICON	0.0
SILVER	0.0
SODIUM	0.0
STRONTIUM	0.0
TANTALUM	0.0
TERBIUM	0.0
THALLIUM	0.0
THORIUM	0.0
THULIUM	0.0
TIN	0.0
TITANIUM	0.0
TUNGSTEN	0.0
URANIUM	0.0
VANADIUM	0.0
YTTERBIUM	0.0
YTTRIUM	0.0
ZINC	0.0
ZIRCONIUM	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 154518.60 Y- 229396.90 Z- 6876.00
DATE DRILL COMPL- 81074 DATE CONV TO MONITOR-111174 AQUIFER 1: 180.00- 470.00FT AQUIFER 2: 920.00-1200.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10
DATE	42975	51875	61075	71275	83075	83075	32676	32676	111276	111276
DEPTH	112.22	110.91	111.20	252.52	105.16	248.55	100.87	259.43	98.06	264.89
TEMP	51.8	51.8	52.2	62.6	55.4	63.5	55.8	61.3	53.5	61.0
LAB ID										
LAB NUM	9795	365	768	1233	2566	2567	7915	7916	4316	4317
METHOD	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	L	U	L	U	L	U	L
WET										
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.800
AMMONIA	-0.100	0.200	0.100	0.400	0.200	0.700	0.200	2.300	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	445.000	480.000	285.000	1320.000	355.000	730.000	370.000	410.000	415.000	1470.000
CADMIUM	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.020
CALCIUM	35.000	95.000	24.000	5.700	16.000	6.000	14.000	5.700	9.800	4.900
CARBONATE	54.000	43.000	115.000	60.000	48.000	60.000	75.000	81.000	60.000	-0.100
CHLORIDE	8.600	14.000	8.900	27.000	2.700	9.500	35.000	14.000	6.900	30.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	0.040	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	0.100	-0.100	0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.400	0.400	0.800	11.000	0.500	23.000	0.400	12.000	0.400	24.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	2.100	2.000	3.500	2.400	3.100	2.000	0.080	0.200	-0.050	-0.050
LEAD	0.100	0.070	0.100	0.600	0.300	0.900	0.200	0.100	0.040	0.070
MAGNESIUM	77.000	40.000	79.000	8.200	72.000	12.000	73.000	10.000	68.000	6.800
MERCURY	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.001	-0.001	0.001	0.002
NITRATE	0.400	-0.100	0.400	0.200	0.200	1.200	0.100	0.200	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	1.200	1.000	3.000	5.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	14.000	13.000	11.000	11.000	13.000	6.600	8.900	7.700	5.300	10.000
SODIUM	195.000	210.000	175.000	580.000	160.000	345.000	200.000	215.000	195.000	580.000
SULFATE	300.000	340.000	265.000	50.000	290.000	30.000	270.000	15.000	270.000	35.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	1.600	1.300
ZINC	1.000	1.100	3.400	0.500	6.800	0.500	0.800	0.300	-0.100	-0.100
GROS ALPHA	1.300	1.000	5.800	6.100	3.200	6.800	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	4.000	19.000	0.0	0.0	0.0	0.0
HARDNESS	405.000	400.000	385.000	48.000	340.000	64.000	0.0	0.0	305.000	40.000
PH	6.400	7.400	7.000	7.400	6.800	7.000	7.400	7.400	7.100	6.600
CONDUCTANC	1290.000	970.000	1260.000	1013.000	1150.000	1660.000	1140.000	960.000	3850.000	2040.000
DIS SOLIDS	1150.000	790.000	820.000	1400.000	780.000	850.000	810.000	640.000	755.000	1340.000
MANGANESE	0.050	-0.050	0.070	-0.050	0.090	-0.050	0.060	-0.050	-0.050	-0.050
ALKALINITY	409.000	425.000	328.000	1129.000	329.000	605.000	360.000	400.000	390.000	1200.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.120	-0.010	0.500	1.100	0.700	1.300	-0.100	-0.100	0.100	0.800
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	0.030	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	0.020	0.030	0.020	0.020	0.020	0.020	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100
TDS	5.000	9.000	5.000	8.000	10.000	9.000	7.900	8.400	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.200	0.100
AMMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.100	-0.020	-0.100	-0.100

SAMPLES	1	2	3	4	5	6	7	8	9	10
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	10.000	13.000	25.700	13.800
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.015	0.003
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.500	0.300
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.200	1.100
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC										
ALUMINUM	0.100	0.050	0.100	0.010	0.050	0.100	0.010	0.020	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.500	0.200	0.500	0.200	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	1.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.010	0.0	0.010	0.001	0.001	0.010	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.050	0.010	0.010	0.020	0.050	0.010	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.010	0.0	0.001	0.0	0.0	0.0	0.001	0.050	0.0	0.0
LITHIUM	0.0	0.001	0.010	0.010	0.001	0.010	0.0	0.001	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	1.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.100	0.0	0.001	0.0	0.005	0.005	0.001	0.001	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.001	0.0	0.0	0.001	0.0	0.001	0.010	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.500	1.000	1.000	1.000	1.000	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.300	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	5.000	2.000	5.000	2.000	5.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	5.000	10.000	99999.000	10.000	10.000	10.000	99999.000	0.0	0.0
STRONTIUM	0.100	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 160240.80 Y- 228513.90 Z- 6719.00
DATE DRILL COMPL- 90174 DATE CONV TO MONITOR-111574 AQUIFER 1: 220.00- 650.00FT AQUIFER 2: 1050.00-1400.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10
DATE	32275	33175	71475	71475	82775	82775	32476	32476	111276	111276
DEPTH	74.77	74.90	96.39	75.70	75.25	97.08	73.48	102.89	33.59	165.20
TEMP	52.7	0.0	62.6	58.1	57.4	57.6	55.8	56.8	53.5	58.5
LAB ID										
LAB NUM	8311	8698	1235	1236	2568	2569	7917	7918	4319	4318
METHOD	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	L	U	U	L	U	L	U	L
WET										
ALUMINUM	0.590	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.300	0.800
AMMONIA	1.800	0.200	0.600	0.500	0.500	0.900	0.500	0.700	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	510.000	605.000	1530.000	450.000	360.000	520.000	350.000	515.000	315.000	1690.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020
CALCIUM	16.000	28.000	11.000	18.000	16.000	8.200	19.000	8.200	11.000	6.500
CARBONATE	-0.100	-0.100	60.000	18.000	27.000	60.000	40.000	81.000	60.000	-0.100
CHLORIDE	-1.000	9.700	18.000	9.600	1.400	8.200	14.000	14.000	9.600	8.200
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.030	0.040	-0.010	-0.010
COPPER	-0.010	-0.010	0.100	-0.100	-0.100	0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	60.000	0.480	14.000	2.000	2.100	15.000	1.900	3.400	2.000	17.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.070	0.150	3.000	5.900	9.400	5.800	0.900	0.080	-0.050	-0.050
LEAD	0.010	0.680	0.200	0.060	0.100	0.300	0.100	0.900	0.040	0.040
MAGNESIUM	22.000	90.000	13.000	26.000	27.000	18.000	25.000	18.000	17.000	6.800
MERCURY	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
NITRATE	0.150	-0.100	0.200	0.200	0.200	0.200	-0.100	-0.100	0.0	0.0
PHOSPHATE	0.090	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	-1.000	1.600	3.500	6.500
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	12.000	24.000	11.000	20.000	18.000	2.500	15.000	1.300	6.400	6.600
SODIUM	340.000	190.000	675.000	265.000	260.000	290.000	260.000	335.000	240.000	660.000
SULFATE	280.000	320.000	140.000	255.000	305.000	110.000	300.000	240.000	255.000	80.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	1.300	1.600
ZINC	0.180	1.400	0.100	0.200	0.200	0.300	0.100	0.600	-0.100	-0.100
GROS ALPHA	4.700	0.0	2.000	0.800	5.800	1.500	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	23.000	26.000	0.0	0.0	0.0	0.0
HARDNESS	130.000	440.000	80.000	150.000	150.000	96.000	0.0	0.0	96.000	44.000
PH	6.800	8.100	7.400	7.100	7.000	7.200	7.000	8.000	7.400	7.000
CONDUCTANC	1425.000	1480.000	2742.000	1240.000	1270.000	2160.000	1210.000	1420.000	1070.000	2550.000
DIS SOLIDS	980.000	960.000	1690.000	840.000	840.000	770.000	810.000	850.000	710.000	1560.000
MANGANESE	0.060	0.520	-0.050	0.220	0.200	0.100	0.090	0.200	-0.050	-0.050
ALKALINITY	420.000	495.000	1299.000	385.000	317.000	474.000	320.000	490.000	310.000	1380.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	-0.010	-0.010
BORON	0.100	1.200	0.800	0.200	0.800	0.800	-0.100	-0.100	0.200	0.400
BARIUM	-1.000	-1.000	-0.100	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	-0.010	0.080	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	-0.010	0.030	0.020	0.010	0.020	0.020	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100
TOC	0.0	0.0	16.000	9.000	8.000	12.000	6.000	11.000	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.100	0.100
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	-0.100	-0.100

SAMPLES	1	2	3	4	5	6	7	8	9	10
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	10.000	35.000	16.800	18.800
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.035	0.006
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.300	0.700
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.600	1.200
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC										
ALUMINUM	0.100	0.010	0.001	0.001	0.010	0.100	0.010	0.010	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.200	0.200	0.500	0.500	0.200	0.200	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	5.000	2.000	99999.000	0.0	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.001	0.0	0.005	0.002	0.010	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.010	0.020	0.020	0.020	0.020	0.050	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.010	0.0	0.0	0.0	0.0	0.010	0.020	0.0	0.0
LITHIUM	0.0	0.0	0.020	0.010	0.001	0.001	0.001	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	1.000	1.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.100	0.0	0.0	0.0	0.005	0.001	0.001	0.001	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.010	0.0	0.0	0.0	0.001	0.001	0.010	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.100	2.000	2.000	1.000	0.100	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	10.000	2.000	5.000	5.000	5.000	5.000	2.000	0.0	0.0
SILVER	-0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	2.000	99999.000	99999.000	99999.000	10.000	5.000	10.000	10.000	0.0	0.0
STRONTIUM	0.100	0.100	0.010	0.0	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.0	0.0	0.001	0.001	0.001	0.001	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.010	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 163932.70 Y- 226189.30 Z- 6659.00
DATE DRILL COMPL- 72574 DATE CONV TO MONITOR-112274 AQUIFER 1: 180.00- 630.00FT AQUIFER 2: 1300.00-1780.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	32975	42875	42875	51775	51775	61075	61075	71375	71375	82875	82875
DEPTH	54.47	28.05	54.93	48.40	41.42	54.46	46.20	57.30	42.70	55.16	55.39	43.54
TEMP	48.0	46.9	46.2	50.0	49.6	49.6	48.7	48.9	60.8	58.6	58.1	57.2
LAB ID												
LAB NUM	8776	8699	9799	9798	366	367	769	770	1237	1238	2570	2571
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	L	U	L	L	U	L	U	L	U	U	L
WET												
ALUMINUM	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.200	0.300	-0.100	1.000	0.900	0.200	0.600	0.200	1.000	0.700	0.900	0.800
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.030	0.040	-0.010	-0.010
BICARBONAT	530.000	1620.000	530.000	1540.000	1560.000	550.000	1990.000	455.000	2780.000	480.000	500.000	2710.000
CADMIUM	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	16.000	9.000	20.000	0.800	5.700	23.000	9.000	16.000	6.600	15.000	12.000	1.600
CARBONATE	42.000	260.000	30.000	290.000	330.000	75.000	250.000	72.000	60.000	72.000	66.000	130.000
CHLORIDE	4.200	53.000	5.700	57.000	41.000	21.000	64.000	6.900	64.000	14.000	6.800	56.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.010	-0.010	0.040	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.200
FLUORIDE	5.000	20.000	3.900	2.600	22.000	3.200	24.000	4.000	30.000	3.700	3.700	32.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	1.700	1.700	1.400	2.800	3.100	1.400	4.700	2.900	2.600	2.700	14.000	15.000
LEAD	0.090	0.200	0.090	0.200	0.200	0.040	0.100	0.080	0.200	0.060	0.030	1.000
MAGNESIUM	26.000	3.300	23.000	9.300	8.200	23.000	5.200	21.000	5.700	29.000	32.000	6.800
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	0.100	0.200	0.600	0.100	-0.100	-0.100	1.500	0.200	1.100	0.500	0.100	-0.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	1.000	-0.100	0.400	0.200	0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.001	-0.010
SILICIDIOXID	31.000	10.000	19.000	5.500	5.800	36.000	9.400	15.000	16.000	22.000	57.000	18.000
SODIUM	205.000	840.000	225.000	700.000	870.000	250.000	1030.000	200.000	1130.000	220.000	215.000	1220.000
SULFATE	28.000	16.000	105.000	60.000	40.000	30.000	25.000	20.000	100.000	45.000	10.000	15.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.200	0.800	1.000	1.100	3.500	0.400	0.900	1.800	0.200	0.100	0.400	1.100
GROS ALPHA	0.0	0.0	0.0	0.0	9.100	3.700	3.800	1.100	4.000	3.600	7.800	7.200
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	3.000	0.0	18.000	0.0	17.000	0.0
HARDNESS	150.000	36.000	145.000	40.000	48.000	150.000	44.000	125.000	40.000	155.000	164.000	32.000
PH	7.600	8.900	7.000	8.000	8.000	7.600	8.900	7.400	7.400	8.000	8.800	8.600
CONDUCTANC	940.000	2570.000	955.000	3400.000	2930.000	960.000	3620.000	950.000	3900.000	1107.000	995.000	3900.000
DIS SOLIDS	620.000	1920.000	690.000	1380.000	2090.000	730.000	2400.000	680.000	2780.000	660.000	660.000	2820.000
MANGANESE	0.550	-0.050	0.130	0.070	-0.050	0.100	0.100	0.200	-0.050	-0.050	0.100	0.400
ALKALINITY	469.000	1565.000	460.000	1500.000	4500.000	511.000	1835.000	434.000	2329.000	454.000	464.000	2330.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.030	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.600	2.000	1.800	2.600	1.500	-0.010	3.900	-0.010	3.100	0.400	1.000	5.700
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.040	0.100	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	-0.010	0.040	0.010	0.030	0.030	-0.010	0.050	0.020	0.030	0.030	0.030	0.050
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOC	0.0	0.0	4.000	13.000	15.000	5.000	12.000	3.000	26.000	28.000	29.000	9.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CYANIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.050	0.100	0.010	0.100	0.010	0.050	0.010	0.020	0.010	0.100	0.050	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.100	0.100	0.100	0.200	0.500	0.200	0.500	0.500	0.200	0.200	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	10.000	99999.000	99999.000	5.000	99999.000	5.000	0.0	1.000	10.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.001	0.001	0.001	0.010	0.001	0.001	0.0	0.010	0.010	0.001
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.200	0.100	0.050	0.0	0.010	0.020	0.020	0.010	0.010	0.500	0.010	0.050
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.001	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.100	0.010	0.001	0.010	0.010	0.010	0.010	0.001	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	10.000	99999.000	99999.000	2.000	99999.000	1.000	2.000	0.500	5.000	99999.000	99999.000
MANGANESE	0.010	0.0	0.0	0.0	0.001	0.010	0.001	0.0	0.0	0.010	0.005	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	2.000	0.050	0.100	0.100	1.000	1.000	1.000	1.000	1.000	2.000	0.100	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.400	0.0	0.0	0.300	0.0	0.0	0.0	0.0	0.0	0.100	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	10.000	20.000	5.000	2.000	5.000	5.000	2.000	5.000	5.000	2.000	2.000
SILVER	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	99999.000	99999.000	5.000	5.000
STRONTIUM	1.000	0.050	0.0	0.0	0.001	0.100	0.001	0.010	0.0	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.010	0.001	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 163932.70 Y- 226189.30 Z- 6659.00
DATE DRILL COMPL- 72374 DATE CONV TO MONITOR-112274 AQUIFER 1: 180.00- 630.00FT AQUIFER 2: 1300.00-1780.00FT

SAMPLES	13	14	15	16
DATE	32476	32476	111276	111276
DEPTH	55.27	49.01	54.15	56.19
TEMP	54.1	52.0	57.4	57.5
LAB ID				
LAB NUM	7919	7920	4305	4304
METHOD	3	3	3	3
AQUIF.LOC.	U	L	U	L
WET				
ALUMINUM	0.0	0.0	0.200	0.900
AMMONIA	0.600	1.400	0.0	0.0
ARSENIC	0.050	-0.010	-0.010	-0.010
BICARBONAT	480.000	2780.000	660.000	2900.000
CADMIUM	0.010	0.020	0.020	0.020
CALCIUM	17.000	2.500	16.000	6.600
CARBONATE	110.000	280.000	12.000	180.000
CHLORIDE	28.000	70.000	-0.100	48.000
CHROMIUM	0.040	0.030	-0.010	0.010
COPPER	-0.100	-0.100	-0.100	-0.100
FLUORIDE	3.800	30.000	3.500	27.000
HYDROXIDE	0.0	0.0	0.0	0.0
IRON	1.800	0.300	-0.050	-0.050
LEAD	0.030	0.200	-0.010	-0.010
MAGNESIUM	31.000	6.300	67.000	14.000
MERCURY	-0.001	-0.001	0.003	-0.001
NITRATE	-0.100	-0.100	0.0	0.0
PHOSPHATE	-0.100	0.100	-0.100	0.100
POTASSIUM	1.000	2.600	4.000	4.000
SELENIUM	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	15.000	15.000	18.000	13.000
SODIUM	260.000	1310.000	130.000	1290.000
SULFATE	100.000	15.000	15.000	10.000
SULFIDE	40.000	0.800	49.000	1.600
ZINC	0.700	0.900	-0.100	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0
HARDNESS	0.0	0.0	115.000	76.000
PH	8.000	8.000	7.100	7.600
CONDUCTANC	1290.000	4300.000	3856.000	1030.000
DIS SOLIDS	660.000	2830.000	720.000	2820.000
MANGANESE	0.400	0.070	0.100	-0.050
ALKALINITY	480.000	2500.000	550.000	360.000
CYANIDE	-0.010	0.020	-0.010	-0.010
BORON	-0.100	0.500	0.300	2.800
BARIUM	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
LITHIUM	-0.100	-0.100	-0.100	-0.100
COD	9.200	10.000	0.0	0.0
NITRITE-N	-0.020	-0.020	0.200	0.300
BROMIDE	-0.020	-0.020	-0.100	-0.100

SAMPLES	13	14	15	16
C.O.D.	400.000	43.000	5.900	7.900
PHENOLS	-0.001	-0.001	-0.001	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	-0.100	0.100
STRONTIUM	0.0	0.0	10.500	1.000
VANADIUM	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	1.100	2.600
DIS-ORG C	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0
SPECTROGRAPHIC				
ALUMINUM	0.010	0.010	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0
BARIUM	0.010	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0
COPPER	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0
LEAD	0.001	0.001	0.0	0.0
LITHIUM	0.001	0.001	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	0.0	0.0
MANGANESE	0.050	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0
MOLYBDENUM	0.020	0.050	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16
PLATINUM	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	0.0	0.0
SILVER	0.001	0.0	0.0	0.0
SODIUM	9999.000	10.000	0.0	0.0
STRONTIUM	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155213.00 Y- 223771.80 Z- 7132.00
DATE DRILL COMPL- 91274 DATE CONV TO MONITOR- 10275 AQUIFER 1: 410.00- 610.00FT AQUIFER 2: 1070.00-1240.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	33175	42675	51575	61275	71275	71275	83075	83075	32476	32476	111076	111076
DEPTH	322.94	323.39	323.24	323.80	510.94	316.95	311.65	512.12	321.42	517.19	319.64	521.17
TEMP	52.7	53.6	54.5	54.0	62.6	65.3	56.3	59.9	53.8	55.9	53.5	58.5
LAB ID												
LAB NUM	8778	9802	370	773	1240	1241	2572	2573	7921	7922	4307	4306
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L	U	L	U	L
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.600	0.300
AMMONIA	0.400	0.200	0.200	0.300	0.700	0.400	0.500	0.700	0.200	0.700	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	760.000	205.000	760.000	700.000	1090.000	630.000	620.000	410.000	645.000	435.000	700.000	940.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.020	-0.010	0.030
CALCIUM	145.000	135.000	200.000	160.000	6.600	115.000	39.000	5.700	30.000	4.100	135.000	6.600
CARBONATE	-0.100	-0.100	-0.100	-0.100	48.000	-0.100	-0.100	93.000	-0.100	86.000	-0.100	-0.100
CHLORIDE	15.000	14.000	21.000	11.000	21.000	9.600	11.000	14.000	8.300	5.600	5.500	1.400
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.010	0.010	-0.010
COPPER	-0.010	0.020	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.400	0.400	0.300	0.400	19.000	0.400	0.600	21.000	0.300	4.500	0.100	11.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	3.000	5.000	4.200	7.900	1.300	8.400	15.000	1.200	0.700	0.060	0.200	-0.050
LEAD	0.020	0.200	0.400	0.100	0.040	0.100	0.800	0.200	0.090	0.200	0.040	-0.010
MAGNESIUM	50.000	50.000	17.000	53.000	11.000	62.000	71.000	15.000	27.000	7.200	73.000	12.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
NITRATE	0.200	0.300	-0.100	0.200	0.200	1.600	0.200	0.400	-0.100	-0.100	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.400	-1.000	6.000	5.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	56.000	53.000	51.000	49.000	8.700	48.000	48.000	4.500	35.000	3.800	43.000	8.600
SODIUM	265.000	120.000	270.000	205.000	520.000	240.000	290.000	260.000	370.000	210.000	170.000	340.000
SULFATE	400.000	500.000	400.000	320.000	55.000	460.000	390.000	75.000	380.000	10.000	360.000	35.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.000	0.600	-0.100	1.600
ZINC	0.100	0.120	0.800	15.000	-0.100	0.300	0.500	0.200	0.200	0.200	-0.100	-0.100
GROS ALPHA	0.0	6.600	8.500	11.000	5.800	5.200	7.000	0.400	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	31.000	46.000	0.0	0.0	0.0	0.0
HARDNESS	565.000	550.000	570.000	625.000	60.000	545.000	390.000	76.000	0.0	0.0	640.000	66.000
PH	6.600	6.600	6.800	6.400	7.300	7.000	6.500	7.000	6.900	7.800	6.200	6.900
CONDUCTANC	1510.000	1100.000	1640.000	1650.000	1711.000	1311.000	1380.000	1710.000	1515.000	1090.000	1470.000	1245.000
DIS SOLIDS	1310.000	980.000	1310.000	1150.000	1240.000	1250.000	1170.000	690.000	1130.000	570.000	1160.000	860.000
MANGANESE	0.230	0.150	0.100	0.300	-0.050	-0.050	0.200	0.300	0.500	-0.050	0.400	-0.050
ALKALINITY	625.000	170.000	710.000	575.000	929.000	515.000	510.000	411.000	525.000	425.000	575.000	770.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010
BORON	0.500	-0.100	-0.010	-0.010	0.800	0.100	0.200	0.500	0.300	0.500	0.300	0.600
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	0.040	0.020	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	-0.010	0.030	0.020	0.030	0.030	0.040	0.050	0.050	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	-0.100	-0.100
TOC	0.0	3.000	13.000	34.000	9.000	14.000	35.000	10.000	8.700	5.000	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.200	0.100
CYANIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.200	-0.020	-0.100	-0.100

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.300	1.800	7.900	7.900
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	-0.001	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.800	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.500	0.400
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.700	1.200
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.100	0.100	0.050	0.010	0.100	0.100	0.010	0.010	0.050	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.001	0.010	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	1.000	0.100	0.500	2.000	0.500	0.500	0.100	0.200	0.500	0.200	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	5.000	99999.000	10.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.0	0.010	0.005	0.001	0.010	0.001	0.001	0.010	0.010	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.050	0.010	0.010	0.010	0.500	0.050	0.020	0.200	0.500	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.010	0.0	0.0
LITHIUM	0.0	0.0	0.001	0.001	0.010	0.001	0.010	0.001	0.001	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	2.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.010	0.0	0.010	0.001	0.0	0.010	0.001	0.005	0.020	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.010	0.010	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.100	0.500	0.100	1.000	1.000	1.000	0.100	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.200	0.200	0.200	0.200	0.100	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	2.000	10.000	5.000	5.000	2.000	5.000	5.000	5.000	5.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	5.000	5.000	99999.000	5.000	10.000	5.000	99999.000	10.000	0.0	0.0
STRONTIUM	0.500	0.0	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.0	0.001	0.0	0.010	0.0	0.005	0.001	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.200	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.010	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 162483.60 Y- 221691.80 Z- 7006.00
DATE DRILL COMPL-100174 DATE CONV TO MONITOR-111674 AQUIFER 1: 640.00- 820.00FT AQUIFER 2: 1380.00-1600.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	33175	33175	42775	42775	50975	50975	61175	61175	71375	71375	82875	82875
DEPTH	371.74	341.20	341.09	393.92	341.76	389.30	391.90	344.50	387.65	341.05	340.67	388.51
TEMP	52.7	52.7	55.4	55.4	55.4	65.4	55.4	56.3	59.0	55.4	54.1	57.6
LAB ID												
LAB NUM	8779	8780	9804	9803	9924	9923	774	775	1242	1243	2574	2575
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	L	U	U	L	U	L	L	U	L	U	U	L
WET												
ALUMINUM	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.0	0.0	0.370	-0.100	0.400	0.120	0.300	0.600	0.600	0.500	0.700	0.900
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	1025.000	870.000	925.000	935.000	880.000	1070.000	1010.000	730.000	1340.000	830.000	825.000	1060.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	0.020	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	98.000	170.000	175.000	62.000	260.000	98.000	45.000	190.000	15.000	130.000	64.000	15.000
CARBONATE	-0.100	-0.100	-0.100	54.000	-0.100	5.800	48.000	48.000	42.000	-0.100	-0.100	63.000
CHLORIDE	24.000	15.000	13.000	28.000	21.000	34.000	36.000	14.000	25.000	9.600	4.100	14.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.010	-0.010	-0.010	0.020	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	3.000	0.600	0.600	5.000	0.600	6.400	8.000	1.000	24.000	0.600	0.700	21.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.110	0.050	3.600	3.500	6.900	9.100	6.600	5.100	6.800	8.100	16.000	4.500
LEAD	-0.010	-0.010	0.250	0.500	0.070	0.420	0.200	0.060	3.200	0.500	1.000	0.200
MAGNESIUM	94.000	105.000	110.000	105.000	110.000	79.000	83.000	100.000	35.000	140.000	130.000	30.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	0.200	0.200	1.100	0.700	0.600	1.200	0.400	4.500	0.200	0.200	0.100	0.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	32.000	58.000	57.000	25.000	54.000	23.000	21.000	52.000	14.000	56.000	56.000	2.000
SODIUM	410.000	365.000	320.000	440.000	280.000	380.000	410.000	350.000	600.000	380.000	395.000	440.000
SULFATE	530.000	800.000	770.000	500.000	800.000	410.000	370.000	800.000	155.000	900.000	760.000	75.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	0.100	0.040	0.500	-0.100	0.800	0.900	0.800	0.500	0.100	0.200	0.900
GROS ALPHA	0.0	0.0	0.0	0.300	0.0	2.200	5.700	6.500	3.700	1.600	8.400	5.700
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.000	55.000
HARDNESS	630.000	845.000	890.000	580.000	1110.000	570.000	450.000	890.000	180.000	900.000	690.000	160.000
PH	6.800	6.800	6.600	7.200	6.800	7.000	7.000	6.000	7.400	6.800	6.200	6.800
CONDUCTANC	2038.000	2140.000	2470.000	2300.000	2460.000	1920.000	2300.000	2610.000	2399.000	2368.000	2300.000	1940.000
DIS SOLIDS	1740.000	1940.000	1910.000	1680.000	1960.000	1580.000	1520.000	1920.000	1570.000	2030.000	1830.000	1120.000
MANGANESE	0.190	0.110	0.050	0.090	0.020	0.080	0.060	0.050	0.050	0.050	-0.050	0.080
ALKALINITY	840.000	715.000	760.000	809.000	720.000	884.700	324.000	639.000	1124.000	680.000	675.000	52.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.300	0.500	0.200	0.400	0.800	1.300	1.000	-0.010	1.000	0.300	0.800	1.100
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.020	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	-0.010	-0.010	0.030	0.030	0.010	-0.010	0.040	0.040	0.050	0.050	0.020	0.040
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOC	0.0	0.0	3.000	5.000	3.000	7.000	32.000	3.000	4.000	14.000	9.000	12.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.050	0.500	0.100	0.500	0.100	0.010	0.010	0.010	0.100	0.050	0.100
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.100	0.200	0.200	0.500	0.500	0.500	0.200	0.500	0.200	0.200	0.500
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	5.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.005	0.0	0.0	0.010	0.010	0.001	0.001	0.001	0.005	0.010	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.100	0.100	0.020	0.010	0.010	0.020	0.020	0.050	0.050	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.100	0.0	0.0	0.001	0.010	0.0	0.001	0.050	0.010	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	2.000	99999.000	5.000	99999.000
MANGANESE	0.0	0.010	0.100	0.050	0.100	0.100	0.010	0.0	0.001	0.010	0.010	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	2.000	2.000	0.0	0.100	2.000	2.000	1.000	0.100	2.000	1.000	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.200	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	10.000	10.000	2.000	5.000	5.000	5.000	5.000	2.000	2.000	5.000
SILVER	0.001	0.000	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	5.000	5.000	10.000	5.000	99999.000	99999.000	10.000	5.000
STRONTIUM	1.000	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.010	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.010	0.0	0.010
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.200	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.001
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 162483.60 Y- 221691.80 Z- 7006.00
DATE DRILL COMPL-100174 DATE CONV TO MONITOR-111674 AQUIFER 1: 640.00- 820.00FT AQUIFER 2: 1380.00-1600.00FT

SAMPLES	13	14	15	16	17
DATE	32976	82776	82776	111176	111176
DEPTH	339.36	339.62	398.71	399.40	376.87
TEMP	52.3	55.3	58.0	57.5	67.5
LAB ID					
LAB NUM	7923	2140	2141	4309	4308
METHOD	3	3	3	3	3
AQUIF.LOC.	U	U	L	U	L
WET					
ALUMINUM	0.0	-0.100	0.200	0.300	0.700
AMMONIA	0.900	0.800	1.000	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	760.000	785.000	740.000	920.000	1350.000
CADMIUM	0.020	0.020	-0.010	0.020	-0.010
CALCIUM	25.000	175.000	65.000	185.000	6.600
CARBONATE	-0.100	-0.100	72.000	-0.100	-0.100
CHLORIDE	8.300	16.000	9.900	-0.100	-0.100
CHROMIUM	-0.010	-0.010	-0.010	0.020	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.300	0.100	17.000	0.200	22.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0
IRON	3.600	-0.050	0.500	0.300	-0.050
LEAD	0.200	0.040	0.040	0.080	-0.010
MAGNESIUM	200.000	130.000	18.000	72.000	8.200
MERCURY	-0.001	-0.001	-0.001	-0.001	-0.001
NITRATE	-0.100	5.300	0.200	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	-1.000	5.000	6.000	8.000	7.000
SELENIUM	0.010	0.010	0.010	-0.010	-0.010
SIL DIOXID	43.000	37.000	6.200	55.000	14.000
SODIUM	320.000	250.000	300.000	400.000	525.000
SULFATE	840.000	800.000	15.000	800.000	20.000
SULFIDE	1.000	1.600	-0.010	-0.100	1.600
ZINC	4.000	-0.100	-0.100	-0.100	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0
HARDNESS	0.0	0.0	0.0	760.000	50.000
PH	6.500	0.0	0.0	6.800	6.800
CONDUCTANC	2210.000	2300.000	1300.000	1950.000	1950.000
DIS SOLIDS	1860.000	1910.000	875.000	1910.000	1210.000
MANGANESE	0.090	0.200	0.050	0.200	-0.050
ALKALINITY	620.000	645.000	600.000	750.000	1100.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.200	0.200	3.900	0.400	1.200
BARIUM	0.0	-1.000	-1.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.010	0.010	0.0	0.0
LITHIUM	-0.100	-0.100	0.200	0.100	0.100
TOC	5.700	15.000	12.000	0.0	0.0
NITRITE-N	-0.020	0.0	0.0	0.200	0.100
BROMIDE	-0.020	-0.100	-0.100	-0.100	-0.100

SAMPLES	13	14	15	16	17
C.O.D.	145.000	15.000	54.000	3.900	10.800
PHENOLS	-0.001	-0.001	1.000	0.003	0.001
KJELDAHL N	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	-0.010	-0.100	0.0	0.0
MOLYBDENUM	0.0	-0.050	-0.050	-0.100	-0.100
STRONTIUM	0.0	0.000	1.000	6.000	0.600
VANADIUM	0.0	-0.050	-0.050	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	1.000	1.800
DIS-ORG C	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC					
ALUMINUM	0.020	0.010	0.100	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.010	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.500	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	10.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0
IRON	1.000	0.500	0.050	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0
LEAD	0.050	0.0	0.001	0.0	0.0
LITHIUM	0.0	0.0	0.020	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	10.000	0.0	0.0
MANGANESE	0.010	0.100	0.100	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.020	0.001	0.010	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0
NICKEL	0.001	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16	17
PLATINUM	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.010	0.010	0.100	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	2.000	0.0	0.0
SILVER	0.0	0.0	0.001	0.0	0.0
SODIUM	10.000	5.000	99999.000	0.0	0.0
STRONTIUM	0.100	0.200	0.010	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.001	0.001	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0
ZINC	0.001	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 154019.50 Y- 215731.70 Z- 7341.00
DATE DRILL COMPL-101274 DATE CONV TO MONITOR-112074 AQUIFER 1: 670.00- 910.00FT AQUIFER 2: 1350.00-1480.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	33175	42775	50975	61175	71375	71375	82875	82875	32976	32976	111176	111176
DEPTH	467.64	478.90	470.60	468.60	718.81	463.01	461.11	720.09	457.72	726.65	457.02	736.96
TEMP	55.4	55.4	57.5	57.6	65.3	57.2	50.9	64.4	53.2	56.1	57.1	63.0
LAB ID												
LAB NUM	8782	9926	9928	777	1244	1245	2576	2577	7924	7925	4310	4126
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L	U	L	U	L
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.300	0.600
AMMONIA	0.0	0.780	0.340	0.300	0.800	0.400	0.500	0.700	0.400	0.800	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	395.000	500.000	420.000	350.000	1990.000	390.000	400.000	585.000	385.000	895.000	405.000	1880.000
CADMIUM	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	-0.010	-0.010	0.010
CALCIUM	22.000	56.000	26.000	30.000	6.600	21.000	19.000	4.900	21.000	3.200	21.000	4.900
CARBONATE	12.000	5.800	4.800	30.000	60.000	-0.100	-0.100	54.000	17.000	69.000	12.000	18.000
CHLORIDE	17.000	17.000	14.000	15.000	88.000	-1.000	-1.000	9.500	9.700	42.000	-0.100	95.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	2.500	1.800	2.700	2.900	32.000	2.800	3.000	16.000	2.500	21.000	2.700	34.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	4.200	4.500	4.300	2.500	2.300	16.000	5.700	0.100	0.070	-0.005	-0.050
LEAD	0.030	0.600	0.050	0.200	0.500	0.100	0.800	0.800	0.080	0.400	-0.010	0.050
MAGNESIUM	29.000	54.000	38.000	31.000	4.800	33.000	33.000	9.700	44.000	32.000	34.000	6.800
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
NITRATE	0.300	0.400	0.300	0.200	0.300	0.800	0.200	0.500	0.100	0.100	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.200	-1.000	4.000	8.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	18.000	26.000	18.000	19.000	11.000	17.000	17.000	3.900	17.000	7.700	14.000	11.000
SODIUM	225.000	255.000	230.000	230.000	910.000	230.000	220.000	265.000	220.000	380.000	210.000	820.000
SULFATE	260.000	400.000	290.000	260.000	50.000	305.000	285.000	15.000	320.000	10.000	270.000	10.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.600	1.000	1.600	1.600
ZINC	-0.100	0.700	0.300	0.900	0.200	0.200	0.200	0.300	2.400	0.600	-0.100	-0.100
GROS ALPHA	0.0	0.0	0.0	2.900	19.000	1.600	10.000	2.700	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	31.000	0.0	36.000	4.000	0.0	0.0	0.0	0.0
HARDNESS	175.000	360.000	220.000	200.000	36.000	190.000	185.000	52.000	0.0	0.0	190.000	40.000
PH	7.200	7.000	6.800	6.100	7.500	7.000	6.800	7.000	7.100	7.200	6.600	7.100
CONDUCTANC	979.000	1480.000	1220.000	1150.000	3021.000	1512.000	1110.000	910.000	1140.000	1070.000	1075.000	2680.000
DIS SOLIDS	780.000	1060.000	830.000	790.000	2140.000	805.000	790.000	670.000	810.000	1010.000	855.000	1850.000
MANGANESE	0.110	0.060	0.050	0.100	-0.050	0.050	0.300	0.090	0.300	0.800	-0.050	-0.050
ALKALINITY	334.800	440.000	343.900	310.000	1679.000	320.000	325.000	524.000	330.000	790.000	340.000	1550.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.700	0.900	0.800	0.200	2.500	0.200	0.700	2.700	0.200	0.100	0.400	2.600
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	-0.010	0.010	0.010	0.020	0.030	0.060	0.030	0.030	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.200	-0.100	-0.100
DOC	0.0	1.000	1.000	4.000	21.000	4.000	11.000	12.000	6.100	8.800	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.100	0.300
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	-0.100	-0.100

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.900	1.300	8.800	9.900
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.005	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.400
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.800	1.500
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.200	0.100	0.100	0.100	0.010	0.020	0.005	0.050	0.010	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.500	0.500	0.200	0.500	0.200	0.500	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.001	0.010	0.005	0.010	0.001	0.005	0.005	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.010	0.010	0.010	0.020	0.050	0.010	0.020	0.500	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.010	0.0	0.0
LITHIUM	0.010	0.010	0.010	0.001	0.0	0.0	0.001	0.001	0.0	0.010	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.010	0.100	0.050	0.001	0.005	0.005	0.001	0.005	0.050	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.001	0.010	0.0	0.001	0.001	0.0	0.001	0.020	0.020	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	5.000	5.000	0.500	2.000	0.100	1.000	0.100	0.010	0.100	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.600	0.0	0.200	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	5.000	5.000	5.000	2.000	5.000	2.000	5.000	5.000	0.0	0.0
SILVER	-0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	10.000	5.000	99999.000	5.000	2.000	5.000	10.000	99999.000	0.0	0.0
STRONTIUM	0.100	0.100	0.100	0.100	0.050	0.050	0.100	0.200	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.0	0.001	0.001	0.001	0.010	0.0	0.001	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155416.40 Y- 217335.40 Z- 7267.00
DATE DRILL COMPL- 91574 DATE CONV TO MONITOR-112374 AQUIFER 1: 580.00- 620.00FT AQUIFER 2: 1280.00-1430.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	42775	50975	61175	71375	71375	82875	82875	32976	32976	111176	111176
DEPTH	407.50	646.90	396.80	645.78	391.98	389.21	646.84	385.41	653.36	384.79	659.62
TEMP	51.8	55.3	55.3	65.3	57.2	58.6	64.7	52.0	57.2	55.8	0.0
LAB ID											
LAB NUM	9930	9932	779	1334	1335	2578	2579	7926	7927	4311	4127
METHOD	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	L	U	U	L	U	L	U	L
WET											
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.400	1.000
AMMONIA	-0.100	-0.100	0.200	1.100	0.300	0.400	1.000	0.400	1.100	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	200.000	100.000	85.000	2020.000	575.000	580.000	1430.000	450.000	1110.000	480.000	2230.000
CADMIUM	0.010	0.020	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020
CALCIUM	30.000	16.000	20.000	13.000	105.000	110.000	9.800	16.000	4.100	31.000	8.200
CARBONATE	-0.100	-0.100	-0.100	150.000	-0.100	-0.100	48.000	-0.100	7.500	-0.100	48.000
CHLORIDE	21.000	27.000	9.600	145.000	14.000	6.800	79.000	4.100	69.000	55.000	120.000
CHROMIUM	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	-0.010	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.300	0.100	0.200	57.000	0.200	0.300	37.000	0.100	25.000	0.100	49.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	9.100	9.300	7.100	6.100	8.000	18.000	16.000	0.900	0.300	-0.050	-0.050
LEAD	0.230	-0.010	0.100	0.200	0.100	0.800	0.600	0.300	0.300	-0.010	0.040
MAGNESIUM	62.000	11.000	14.000	20.000	70.000	65.000	42.000	77.000	32.000	49.000	9.600
MERCURY	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	0.001	-0.001
NITRATE	0.900	0.200	0.200	0.100	0.100	0.700	0.200	0.200	0.500	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.100	1.100	5.000	10.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	2.900	0.600	3.100	5.900	16.000	39.000	7.600	13.000	43.000	13.000	7.700
SODIUM	160.000	225.000	260.000	1040.000	240.000	230.000	700.000	295.000	575.000	300.000	1000.000
SULFATE	430.000	420.000	520.000	140.000	520.000	490.000	205.000	540.000	200.000	420.000	75.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.600	1.000	1.600	2.200
ZINC	1.200	0.200	3.900	0.900	0.100	0.200	0.800	0.700	0.800	-0.100	-0.100
GROS ALPHA	0.200	0.600	0.300	10.000	0.0	6.900	6.800	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	12.000	0.0	31.000	53.000	0.0	0.0	0.0	0.0
HARDNESS	230.000	86.000	110.000	115.000	550.000	535.000	195.000	0.0	0.0	280.000	60.000
PH	6.400	6.600	6.10	7.500	6.800	6.300	7.400	7.600	8.000	6.500	7.000
CONDUCTANC	1480.000	1225.000	1300.000	3705.000	1827.000	1830.000	2750.000	1300.000	1300.000	1430.000	3380.000
DIS SOLIDS	820.000	1045.000	870.000	2470.000	1250.000	1240.000	1840.000	1040.000	1560.000	1020.000	2310.000
MANGANESE	0.630	0.780	0.400	-0.050	0.300	0.500	0.300	0.800	0.100	0.030	-0.050
ALKALINITY	160.000	82.000	70.000	1770.000	550.000	475.000	1209.000	370.000	970.000	395.000	1860.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010
BORON	0.800	1.200	4.800	4.400	0.400	-0.010	2.700	1.400	0.100	0.200	2.200
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	0.020	0.020	0.020	0.040	0.040	0.040	0.040	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	0.100	-0.100
DOC	10.000	4.000	6.0	10.000	10.000	50.000	9.000	5.700	5.800	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.300	0.200
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.040	-0.020	-0.100	-0.100

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.000	1.900	4.900	18.800
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.011	0.002
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.200
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.900	0.400
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.700	1.900
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC											
ALUMINUM	0.200	0.100	0.100	0.010	0.050	0.100	0.010	0.010	0.010	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.200	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	0.0	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.010	0.001	0.010	0.010	0.0	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.050	0.050	0.010	0.050	0.050	0.020	0.010	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.010	0.010	0.0	0.0
LITHIUM	0.010	0.020	0.010	0.010	0.001	0.010	0.001	0.001	0.010	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	5.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.100	0.010	0.010	0.0	0.001	0.005	0.005	0.010	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.010	0.001	0.0	0.001	0.0	0.001	0.010	0.020	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	5.000	5.000	1.000	1.000	0.100	0.100	0.100	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.900	0.0	0.0	0.100	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	10.000	99999.000	5.000	10.000	5.000	99999.000	99999.000	0.0	0.0
STRONTIUM	0.100	0.100	0.100	0.001	0.100	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.010	0.001	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 156583.60 Y- 219490.80 Z- 7191.00
DATE DRILL COMPL- 92874 DATE CONV TO MONITOR-112274 AQUIFER 1: 510.00- 840.00FT AQUIFER 2: 1280.00-1380.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	42775	50975	61175	71375	71375	82875	82875	32876	32876	111176	111176
DEPTH	384.40	384.80	387.50	572.30	384.42	382.37	572.26	381.04	578.39	384.15	584.91
TEMP	53.6	54.5	54.5	62.6	57.2	57.2	55.6	51.3	55.4	54.0	59.0
LAB ID											
LAB NUM	9935	9937	873	1336	1337	2580	2581	7928	7929	4313	4312
METHOD	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	L	U	U	L	U	L	U	L
WET											
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.600
AMMONIA	-0.100	-0.100	0.500	1.000	0.300	0.800	0.700	0.400	1.500	0.0	0.0
ARSENIC	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	525.000	460.000	435.000	1830.000	605.000	620.000	1630.000	585.000	1500.000	690.000	1560.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	53.000	49.000	30.000	9.000	105.000	82.000	7.400	9.800	4.900	38.000	8.200
CARBONATE	36.000	66.000	54.000	205.000	-0.100	-0.100	30.000	12.000	75.000	-0.100	-0.100
CHLORIDE	14.000	13.000	12.000	89.000	14.000	8.200	51.000	8.300	39.000	9.600	23.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	-0.100	0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.100	0.100	0.100	66.000	0.100	0.500	13.000	0.900	35.000	0.100	27.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	3.300	1.800	5.200	2.700	7.700	15.000	7.600	1.400	0.200	-0.050	-0.050
LEAD	0.900	1.100	0.400	0.500	0.200	1.000	1.400	0.100	0.600	0.030	0.070
MAGNESIUM	79.000	82.000	74.000	6.200	72.000	79.000	14.000	115.000	16.000	97.000	7.700
MERCURY	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
NITRATE	0.400	0.500	7.000	0.200	0.200	0.800	1.400	0.200	0.200	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.400	1.900	2.000	1.800
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	23.000	26.000	17.000	4.700	17.000	37.000	6.700	16.000	7.100	18.000	10.000
SODIUM	210.000	200.000	250.000	1000.000	200.000	235.000	710.000	220.000	670.000	235.000	600.000
SULFATE	360.000	345.000	400.000	50.000	475.000	480.000	100.000	420.000	15.000	380.000	15.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.600	-0.100	3.200	1.600
ZINC	3.700	1.400	2.000	0.100	0.300	0.200	0.500	0.500	0.300	-0.100	-0.100
GROS ALPHA	1.300	0.800	0.0	22.000	0.400	9.700	4.300	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	79.000	0.0	48.000	0.0	0.0	0.0	0.0	0.0
HARDNESS	455.000	460.000	360.000	43.000	555.000	530.000	76.000	0.0	0.0	490.000	52.000
PH	7.000	6.900	6.100	7.400	7.000	6.400	7.200	7.000	7.200	6.600	7.100
CONDUCTANC	1550.000	1460.000	1510.000	3481.000	1638.000	1710.000	1485.000	1480.000	3100.000	1370.000	1960.000
DIS SOLIDS	1040.000	1010.000	1000.000	2330.000	1190.000	1240.000	1740.000	1320.000	1600.000	1070.000	1390.000
MANGANESE	0.070	0.080	0.100	-0.050	0.200	0.200	0.200	0.200	0.080	0.400	-0.050
ALKALINITY	450.000	429.000	399.000	1670.000	495.000	510.000	1354.000	490.000	1290.000	565.000	1280.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	0.010
BORON	0.270	0.070	0.020	2.800	1.000	0.700	3.700	1.600	0.200	0.200	1.100
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	0.040	0.040	0.020	0.050	0.040	0.020	0.040	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	0.800	0.400
DOC	3.000	2.000	7.000	10.000	12.000	12.000	8.000	6.200	7.300	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.400	0.400
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	-0.020	-0.100	-0.100

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.300	2.200	-0.100	4.900
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.035	0.098
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.000	0.400
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.300	1.400
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC											
ALUMINUM	0.001	0.100	0.050	0.100	0.010	0.100	0.050	0.010	0.020	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.500	0.500	0.500	0.500	0.200	0.500	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	5.000	99999.000	10.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.0	0.001	0.0	0.001	0.005	0.005	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.020	0.050	0.0	0.050	0.010	0.010	0.010	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.001	0.010	0.0	0.0
LITHIUM	0.0	0.0	0.001	0.0	0.001	0.010	0.001	0.010	0.001	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	0.0	99999.000	10.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.010	0.0	0.001	0.0	0.010	0.001	0.001	0.050	0.020	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.100	0.100	0.0	1.000	1.000	0.100	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.700	0.0	0.0	0.100	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	10.000	2.000	5.000	2.000	5.000	5.000	5.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	5.000	99999.000	5.000	5.000	5.000	99999.000	10.000	0.0	0.0
STRONTIUM	0.500	0.0	0.100	0.010	0.100	0.050	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 162945.30 Y- 215066.80 Z- 6980.00
DATE DRILL COMPL-102874 DATE CONV TO MONITOR-123074 AQUIFER 1: 600.00- 700.00FT AQUIFER 2: 1300.00-1400.00FT

SAMPLES	1	2	3	4	5	6	7	8
DATE	71375	71375	82875	82875	32976	32976	111176	111176
DEPTH	361.07	275.04	274.85	361.99	272.99	368.71	272.20	374.81
TEMP	63.5	60.4	59.5	60.3	53.8	56.8	56.3	60.0
LAB ID								
LAB NUM	1338	1339	2582	2583	7930	7931	4315	4314
METHOD	3	3	3	3	3	3	3	3
AQUIF.LOC.	L	U	U	L	U	L	U	L
WET								
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	0.300
AMMONIA	1.400	0.200	0.500	0.800	0.700	0.400	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	2280.000	325.000	445.000	780.000	445.000	855.000	520.000	1450.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	17.000	30.000	25.000	14.000	9.000	4.900	43.000	8.200
CARBONATE	235.000	90.000	24.000	48.000	23.000	96.000	18.000	-0.100
CHLORIDE	48.000	14.000	4.100	19.000	6.900	25.000	8.200	37.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	0.030	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	85.000	2.400	2.300	26.000	1.100	19.000	1.300	28.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	4.500	2.800	11.000	5.400	0.400	0.100	-0.050	-0.050
LEAD	0.300	0.900	0.500	0.500	0.400	0.400	0.080	0.400
MAGNESIUM	29.000	36.000	42.000	90.000	83.000	70.000	60.000	58.000
MERCURY	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
NITRATE	0.100	0.200	1.400	0.200	0.100	0.200	0.0	0.0
PHOSPHATE	-0.100	0.100	0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	1.400	2.200	2.100	4.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	11.000	2.600	21.000	4.600	22.000	3.800	21.000	5.900
SODIUM	1220.000	260.000	255.000	400.000	205.000	500.000	250.000	650.000
SULFATE	130.000	320.000	330.000	430.000	410.000	410.000	415.000	300.000
SULFIDE	0.0	0.0	0.0	0.0	1.300	-0.100	-0.100	3.200
ZINC	0.300	0.100	0.200	0.200	0.600	1.000	-0.100	-0.100
GROS ALPHA	20.000	0.600	15.000	3.200	0.0	0.0	0.0	0.0
GROSS BETA	40.000	7.000	10.000	0.0	0.0	0.0	0.0	0.0
HARDNESS	160.000	225.000	250.000	405.000	0.0	0.0	350.000	260.000
PH	7.600	7.200	7.100	7.200	7.300	7.800	6.800	7.000
CONDUCTANC	4398.000	1380.000	1310.000	2600.000	1340.000	1540.000	1475.000	2400.000
DIS SOLIDS	2950.000	900.000	9[illegible]0.000	1420.000	1020.000	1750.000	995.000	1740.000
MANGANESE	-0.050	0.070	0.100	0.090	0.200	0.060	-0.050	-0.050
ALKALINITY	2050.000	339.000	3[illegible]3.000	679.000	385.000	775.000	440.000	1180.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	0.050	-0.010	-0.010	0.050
BORON	4.400	0.100	0.200	3.600	1.400	0.700	0.300	1.000
BARIUM	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	0.060	0.030	0.020	0.030	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	-0.100	-0.100	1.000	0.600
[illegible]	73.000	9.000	5.000	6.000	2.800	6.900	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	-0.020	-0.020	0.200	0.600
BROMIDE	0.0	0.0	0.0	0.0	-0.020	-0.020	-0.100	-0.100

SAMPLES	1	2	3	4	5	6	7	8
C.O.D.	0.0	0.0	0.0	0.0	3.600	17.000	4.900	-0.100
PHENOLS	0.0	0.0	0.0	0.0	-0.001	-0.001	0.008	0.015
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.300
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.400	1.100
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC								
ALUMINUM	0.001	0.010	0.005	0.050	0.010	0.010	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.200	0.200	0.500	0.500	0.200	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.010	0.005	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.010	0.020	0.020	0.020	0.010	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
LITHIUM	0.0	0.0	0.001	0.001	0.0	0.010	0.0	0.0
LUTETIUM	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	5.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.001	0.010	0.010	0.005	0.010	0.001	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.001	0.0	0.0	0.010	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.100	0.100	0.100	0.010	0.050	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	2.000	5.000	2.000	5.000	5.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	5.000	5.000	10.000	99999.000	0.0	0.0
STRONTIUM	0.010	0.0	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 155352.57 Y- 217387.19 Z- 0.0
DATE DRILL COMPL-113074 DATE CONV TO MONITOR- 0 AQUIFER 1: 580.00- 620.00FT AQUIFER 2: 1280.00-1430.00FT

SAMPLES	1
DATE	50975
DEPTH	0.0
TEMP	60.8
LAB ID	
LAB NUM	170
METHOD	3
AQUIF.LOC.	L
WET	
ALUMINUM	0.0
AMMONIA	1.400
ARSENIC	-0.010
BICARBONAT	2420.000
CADMIUM	-0.010
CALCIUM	17.000
CARBONATE	240.000
CHLORIDE	160.000
CHROMIUM	0.0
COPPER	-0.100
FLUORIDE	72.000
HYDROXIDE	0.0
IRON	1.900
LEAD	0.060
MAGNESIUM	7.200
MERCURY	-0.010
NITRATE	-0.100
PHOSPHATE	-0.100
POTASSIUM	0.0
SELENIUM	-0.010
SIL DIOXID	14.000
SODIUM	1200.000
SULFATE	50.000
SULFIDE	0.0
ZINC	0.100
GROS ALPHA	7.300
GROSS BETA	0.0
HARDNESS	72.000
PH	8.000
CONDUCTANC	4190.000
DIS SOLIDS	2950.000
MANGANESE	-0.050
ALKALINITY	2180.000
CYANIDE	-0.010
BORON	5.300
BARIUM	-1.000
SILVER	-0.010
NICKEL	0.100
LITHIUM	0.0
TOC	13.000
NITRITE-N	0.0
BROMIDE	0.0

SAMPLES	1
C.O.D.	0.0
PHENOLS	0.0
KJELDAHL N	0.0
BERYLLIUM	0.0
MOLYBDENUM	0.0
STRONTIUM	0.0
VANADIUM	0.0
ORTHO PHOS	0.0
AMMONIA-N	0.0
DIS-ORG C	0.0
MBAS	0.0
TOT COLIF	0.0
FEC COLIF	0.0
5-DAY B.O.	0.0

SPECTROGRAPHIC

ALUMINUM	0.100
ANTIMONY	0.0
ARSENIC	0.0
BARIUM	0.0
BERYLIUM	0.0
BISMUTH	0.0
BORON	0.500
CADMIUM	0.0
CALCIUM	10.000
CERIUM	0.0
CESIUM	0.0
CHROMIUM	0.0
COBOLT	0.0
COLUMBIUM	0.0
COPPER	0.001
DYSPROSIUM	0.0
ERBIUM	0.0
EUROPIUM	0.0
GADOLINIUM	0.0
GALLIUM	0.0
GERMANIUM	0.0
GOLD	0.0
HAFNIUM	0.0
HOLMIUM	0.0
INDIUM	0.0
IRIDIUM	0.0
IRON	0.020
LANTHANUM	0.0
LEAD	0.0
LITHIUM	0.010
LUTETIUM	0.0
MAGNESIUM	5.000
MANGANESE	0.001
MERCURY	0.0
MOLYBDENUM	0.0
NEODYMIUM	0.0
NICKEL	0.0
OSMIUM	0.0
PALLADIUM	0.0

SAMPLES	1
PLATINUM	0.0
POTASSIUM	2.000
PRASEODYMI	0.0
RADIUM	0.700
RHENIUM	0.0
RHODIUM	0.0
RUBIDIUM	0.0
RUTHENIUM	0.0
SAMARIUM	0.0
SCANDIUM	0.0
SELENIUM	0.0
SILICON	2.000
SILVER	0.0
SODIUM	99999.000
STRONTIUM	0.0
TANTALUM	0.0
TERBIUM	0.0
THALLIUM	0.0
THORIUM	0.0
THULIUM	0.0
TIN	0.0
TITANIUM	0.0
TUNGSTEN	0.0
URANIUM	0.0
VANADIUM	0.0
YTTERBIUM	0.0
YTTRIUM	0.0
ZINC	0.0
ZIRCONIUM	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 151719.55 Y- 229929.78 Z- 0.0
DATE DRILL COMPL-112474 DATE CONV TO MONITOR- 0 AQUIFER 1: 220.00- 310.00FT AQUIFER 2: 940.00-1020.00FT

SAMPLES	1	2
DATE	32475	42975
DEPTH	375.00	368.64
TEMP	57.2	57.2
LAB ID		
LAB NUM	8156	176
METHOD	3	3
AQUIF.LOC.	L	L
WET		
ALUMINUM	0.390	0.0
AMMONIA	1.600	0.600
ARSENIC	-0.010	-0.010
BICARBONAT	840.000	710.000
CADMIUM	-0.001	-0.010
CALCIUM	25.000	34.000
CARBONATE	-0.100	75.000
CHLORIDE	19.000	21.000
CHROMIUM	-0.010	0.0
COPPER	0.010	-0.100
FLUORIDE	4.000	6.000
HYDROXIDE	0.0	0.0
IRON	3.000	8.900
LEAD	0.003	0.100
MAGNESIUM	44.000	57.000
MERCURY	0.002	-0.010
NITRATE	0.200	0.200
PHOSPHATE	-0.100	-0.100
POTASSIUM	0.0	0.0
SELENIUM	-0.010	-0.010
SIL DIOXID	4.500	4.700
SODIUM	385.000	350.000
SULFATE	350.000	320.000
SULFIDE	0.0	0.0
ZINC	0.050	0.200
GROS ALPHA	2.500	1.500
GROSS BETA	4.000	0.0
HARDNESS	245.000	320.000
PH	6.400	6.800
CONDUCTANC	1750.000	1525.000
DIS SOLIDS	1250.000	1220.000
MANGANESE	0.320	0.090
ALKALINITY	690.000	641.000
CYANIDE	-0.010	-0.010
BORON	-0.010	0.800
BARIUM	-1.000	-1.000
SILVER	0.001	-0.010
NICKEL	0.003	0.040
LITHIUM	0.0	0.0
DOC	0.0	5.000
NITRITE-N	0.0	0.0
BROMIDE	0.0	0.0

SAMPLES	1	2
C.O.D.	0.0	0.0
PHENOLS	0.0	0.0
KJELDAHL N	0.0	0.0
BERYLLIUM	0.0	0.0
MOLYBDENUM	0.0	0.0
STRONTIUM	0.0	0.0
VANADIUM	0.0	0.0
ORTHO PHOS	0.0	0.0
AMMONIA-N	0.0	0.0
DIS-ORG C	0.0	0.0
MBAS	0.0	0.0
TOT COLIF	0.0	0.0
FEC COLIF	0.0	0.0
5-DAY B.O.	0.0	0.0
SPECTROGRAPHIC		
ALUMINUM	0.200	0.050
ANTIMONY	0.0	0.0
ARSENIC	0.0	0.0
BARIUM	0.0	0.0
BERYLIUM	0.0	0.0
BISMUTH	0.0	0.0
BORON	0.0	0.500
CADMIUM	0.0	0.0
CALCIUM	99999.000	10.000
CERIUM	0.0	0.0
CESIUM	0.0	0.0
CHROMIUM	0.0	0.0
COBOLT	0.0	0.0
COLUMBIUM	0.0	0.0
COPPER	0.001	0.001
DYSPROSIUM	0.0	0.0
ERBIUM	0.0	0.0
EUROPIUM	0.0	0.0
GADOLINIUM	0.0	0.0
GALLIUM	0.0	0.0
GERMANIUM	0.0	0.0
GOLD	0.0	0.0
HAFNIUM	0.0	0.0
HOLMIUM	0.0	0.0
INDIUM	0.0	0.0
IRIDIUM	0.0	0.0
IRON	0.500	0.020
LANTHANUM	0.0	0.0
LEAD	0.0	0.0
LITHIUM	0.0	0.010
LUTETIUM	0.0	0.0
MAGNESIUM	99999.000	5.000
MANGANESE	0.100	0.010
MERCURY	0.0	0.0
MOLYBDENUM	0.001	0.0
NEODYMIUM	0.0	0.0
NICKEL	0.0	0.0
OSMIUM	0.0	0.0
PALLADIUM	0.0	0.0

SAMPLES	1	2
PLATINUM	0.0	0.0
POTASSIUM	5.000	2.000
PRASEODYMI	0.0	0.0
RADIUM	0.0	0.0
RHENIUM	0.0	0.0
RHODIUM	0.0	0.0
RUBIDIUM	0.0	0.0
RUTHENIUM	0.0	0.0
SAMARIUM	0.0	0.0
SCANDIUM	0.0	0.0
SELENIUM	0.0	0.0
SILICON	5.000	2.000
SILVER	0.0	0.0
SODIUM	99999.000	99999.000
STRONTIUM	0.100	0.010
TANTALUM	0.0	0.0
TERBIUM	0.0	0.0
THALLIUM	0.0	0.0
THORIUM	0.0	0.0
THULIUM	0.0	0.0
TIN	0.0	0.0
TITANIUM	0.010	0.0
TUNGSTEN	0.0	0.0
URANIUM	0.0	0.0
VANADIUM	0.0	0.0
YTTERBIUM	0.0	0.0
YTTRIUM	0.0	0.0
ZINC	0.0	0.0
ZIRCONIUM	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 151453.91 Y- 232774.44 Z- 7452.00
DATE DRILL COMPL-111674 DATE CONV TO MONITOR-121374 AQUIFER 1: 600.00- 800.00FT AQUIFER 2: 1360.00-1500.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	32975	42275	42275	50875	50875	60975	60975	71775	71775	82975	82975
DEPTH	807.05	632.72	629.44	821.71	825.72	627.64	827.00	628.00	820.03	623.71	621.37	821.01
TEMP	57.2	55.6	57.0	59.4	58.6	57.8	58.8	57.4	64.4	59.0	59.0	60.8
LAB ID												
LAB NUM	8887	8888	9943	9942	9944	9945	884	885	1340	1341	2584	2585
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	L	U	U	L	L	U	L	U	L	U	U	L
WET												
ALUMINUM	0.300	0.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	-0.100	0.100	1.200	-0.100	-0.100	-0.100	0.100	0.100	0.200	0.200	0.200	0.200
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.040	-0.010	-0.010
BICARBONAT	355.000	390.000	370.000	370.000	450.000	390.000	340.000	335.000	590.000	395.000	390.000	300.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	16.000	27.000	66.000	30.000	18.000	51.000	16.000	18.000	16.000	43.000	33.000	9.100
CARBONATE	9.000	-0.100	18.000	24.000	-0.100	12.000	36.000	24.000	66.000	-0.100	-0.100	42.000
CHLORIDE	6.900	9.700	14.000	16.000	17.000	13.000	6.900	16.000	21.000	27.000	4.100	9.500
CHROMIUM	-0.010	-0.010	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.080	0.760	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.400	0.200	0.100	0.400	0.400	0.100	0.400	0.200	4.700	0.200	0.400	0.900
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.400	2.100	2.000	1.200	2.100	4.200	3.000	9.500	3.400	8.400	16.000	4.600
LEAD	1.500	2.500	1.000	3.600	4.600	1.100	2.300	1.700	0.700	0.200	1.000	0.400
MAGNESIUM	31.000	38.000	24.000	35.000	35.000	30.000	26.000	31.000	22.000	29.000	32.000	30.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002
NITRATE	-0.100	0.500	-0.100	-0.100	-0.100	-0.100	0.200	0.100	0.200	0.200	0.200	1.000
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	4.400	21.000	24.000	5.100	-0.100	22.000	2.000	6.000	9.900	14.000	21.000	0.800
SODIUM	200.000	220.000	230.000	190.000	190.000	210.000	190.000	205.000	335.000	230.000	230.000	200.000
SULFATE	270.000	300.000	350.000	250.000	220.000	320.000	185.000	250.000	230.000	330.000	345.000	230.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.310	0.540	0.400	0.300	0.400	0.400	0.500	1.000	0.200	0.200	0.100	0.400
GROS ALPHA	0.0	0.0	0.800	2.000	2.000	7.600	2.000	2.600	3.900	29.000	20.000	0.100
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.000	7.000	45.000	41.000
HARDNESS	170.000	225.000	265.000	215.000	190.000	250.000	150.000	170.000	130.000	230.000	210.000	145.000
PH	6.600	6.400	6.400	6.800	6.700	6.500	7.200	6.600	7.200	7.000	7.000	7.400
CONDUCTANC	1200.000	1220.000	1180.000	1050.000	1040.000	1150.000	990.000	1120.000	1323.000	1205.000	1140.000	1020.000
DIS SOLIDS	710.000	810.000	910.000	730.000	700.000	850.000	630.000	720.000	1000.000	880.000	870.000	670.000
MANGANESE	0.140	0.450	0.140	-0.050	0.400	0.150	0.050	0.300	0.060	0.050	0.080	0.100
ALKALINITY	297.400	320.000	320.000	325.000	370.000	330.000	310.000	295.000	539.000	325.000	320.000	279.000
CYANIDE	0.0	0.0	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.200	0.300	0.100	0.080	0.080	0.410	0.010	0.060	0.300	0.200	0.300	0.200
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.020	0.020	0.020	0.020	0.020	0.020	0.040	0.020	0.010	0.200	0.070	0.030
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOC	0.0	0.0	6.000	17.000	17.000	9.000	10.000	12.000	10.000	10.000	9.000	9.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.100	0.100	0.100	0.010	0.100	0.010	0.050	0.100	0.100	0.100	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	1.000	0.100	0.500	0.100	0.100	0.500	0.500	0.500	0.200	0.200	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.020	0.010	0.010	0.010	0.010	0.010	0.020	0.010	0.001	0.001	0.001	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.200	0.500	0.050	0.010	0.010	0.020	0.050	0.050	0.010	0.050	0.050	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.200	0.500	0.200	0.050	0.0	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.010	0.0	0.0	0.100	0.010	0.001	0.0	0.0	0.001	0.001	0.010
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000
MANGANESE	0.010	0.020	0.100	0.010	0.010	0.100	0.005	0.010	0.001	0.001	0.010	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.001	0.500	0.050	0.100	0.500	0.0	0.0	0.0	0.001	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	2.000	0.500	1.000	0.100	1.000	1.000	1.000	1.000	1.000	1.000	1.000
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	20.000	10.000	10.000	20.000	5.000	2.000	5.000	2.000	2.000	5.000
SILVER	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	5.000	5.000	10.000	5.000	5.000	10.000
STRONTIUM	0.100	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.100	0.100	0.010	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.010	0.010	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.010	0.001	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.010	0.0	0.100	0.0	0.0	0.010	0.0	0.001	0.001	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 151433.91 Y- 232774.44 Z- 7452.00
DATE DRILL COMPL-111674 DATE CONV TO MONITOR-121374 AQUIFER 1: 600.00- 800.00FT AQUIFER 2: 1360.00-1500.00FT

SAMPLES	13	14	15	16
DATE	32576	32576	111376	111376
DEPTH	618.71	825.84	622.15	834.60
TEMP	55.8	61.0	57.5	0.0
LAB ID				
LAB NUM	7932	7933	4325	4324
METHOD	3	3	3	3
AQUIF.LOC.	U	L	U	L
WET				
ALUMINUM	0.0	0.0	0.200	0.400
AMMONIA	0.400	0.300	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010
BICARBONAT	380.000	370.000	365.000	1460.000
CADMIUM	-0.010	-0.010	-0.010	-0.010
CALCIUM	47.000	11.000	12.000	8.200
CARBONATE	-0.100	48.000	36.000	-0.100
CHLORIDE	11.000	14.000	41.000	6.900
CHROMIUM	0.040	0.030	-0.010	-0.010
COPPER	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.200	2.400	0.100	15.000
HYDROXIDE	0.0	0.0	0.0	0.0
IRON	0.200	-0.050	0.090	-0.050
LEAD	0.800	1.600	0.060	0.060
MAGNESIUM	31.000	29.000	33.000	14.000
MERCURY	-0.001	-0.001	-0.001	-0.001
NITRATE	-0.100	-0.100	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100
POTASSIUM	-1.000	1.600	8.500	2.900
SELENIUM	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	24.000	1.600	10.000	3.300
SODIUM	250.000	180.000	235.000	585.000
SULFATE	375.000	170.000	260.000	100.000
SULFIDE	1.300	0.600	0.200	1.600
ZINC	0.400	0.300	-0.100	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0
HARDNESS	0.0	0.0	175.000	80.000
PH	6.800	7.600	6.600	6.700
CONDUCTANC	1140.000	1030.000	1100.000	2080.000
DIS SOLIDS	940.000	750.000	710.000	1200.000
MANGANESE	0.100	0.200	-0.050	-0.050
ALKALINITY	310.000	345.000	330.000	1200.000
CYANIDE	-0.010	-0.010	-0.010	-0.010
BORON	0.200	0.500	0.100	0.200
BARIUM	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
LITHIUM	-0.100	-0.100	0.300	0.400
DOC	6.800	7.300	0.0	0.0
NITRITE-N	-0.020	-0.020	0.2[illegible]	0.600
BROMIDE	-0.020	0.100	0.3[illegible]	-0.100

SAMPLES	13	14	15	16
C.O.D.	54.000	25.000	17.000	9.800
PHENOLS	-0.001	-0.001	0.174	0.020
KJELDAHL N	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	1.100	-0.100
STRONTIUM	0.0	0.0	1.500	0.300
VANADIUM	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.200	1.200
DIS-ORG C	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0
SPECTROGRAPHIC				
ALUMINUM	0.010	0.050	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0
BORON	0.500	0.200	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0
COPPER	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0
IRON	0.010	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0
LEAD	0.010	0.020	0.0	0.0
LITHIUM	0.001	0.010	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	0.0	0.0
MANGANESE	0.001	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.050	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0
NICKEL	0.0	0.001	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16
PLATINUM	0.0	0.0	0.0	0.0
POTASSIUM	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
SODIUM	10.000	10.000	0.0	0.0
STRONTIUM	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 173637.82 Y- 240533.37 Z- 6556.00
DATE DRILL COMPL-103074 DATE CONV TO MONITOR- 10475 AQUIFER 1: 360.00-1160.00FT AQUIFER 2: 1980.00-2030.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	32975	42675	42675	50775	50975	60975	60975	71675	82975	82975	32576
DEPTH	353.04	234.16	232.43	353.44	232.25	353.69	356.00	233.00	232.16	236.42	354.85	225.76
TEMP	50.9	46.8	0.0	53.6	51.6	52.5	53.2	52.7	53.9	55.4	55.4	51.3
LAB ID												
LAB NUM	9017	9018	240	239	9794	9946	886	887	1343	2586	2587	7934
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	L	U	U	L	U	L	L	U	U	U	L	U
WET												
ALUMINUM	-0.100	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	0.100	0.300	0.200	0.100	-0.100	-0.100	0.200	0.400	0.500	0.400	0.200	0.600
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	585.000	645.000	590.000	540.000	605.000	435.000	415.000	590.000	650.000	645.000	355.000	585.000
CADMIUM	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	85.000	95.000	92.000	66.000	78.000	67.000	46.000	51.000	65.000	59.000	18.000	155.000
CARBONATE	-0.100	-0.100	12.000	8.600	-0.100	55.000	42.000	-0.100	-0.100	-0.100	84.000	12.000
CHLORIDE	17.000	11.000	64.000	16.000	7.100	17.000	9.600	12.000	14.000	3.400	9.500	11.000
CHROMIUM	-0.010	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.030
COPPER	-0.010	-0.010	-0.100	-0.100	0.020	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.200	0.100	0.200	0.200	0.200	0.200	0.500	0.100	0.400	0.200	2.100	0.300
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.120	-0.050	7.600	7.200	5.400	6.200	4.500	6.000	8.200	17.000	2.200	-0.050
LEAD	0.030	0.040	0.200	0.700	0.510	0.530	0.200	0.200	0.700	0.040	0.900	0.070
MAGNESIUM	115.000	135.000	130.000	130.000	140.000	115.000	110.000	145.000	150.000	155.000	88.000	120.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.001
NITRATE	0.600	0.700	0.700	1.200	0.300	0.100	0.200	0.900	0.200	1.000	0.400	-0.100
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.010	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.400
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	19.000	38.000	21.000	13.000	22.000	11.000	5.100	17.000	20.000	29.000	6.300	33.000
SODIUM	195.000	210.000	240.000	200.000	190.000	190.000	220.000	215.000	210.000	140.000	235.000	160.000
SULFATE	580.000	640.000	630.000	600.000	630.000	570.000	580.000	620.000	590.000	500.000	450.000	680.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.600
ZINC	0.120	0.270	0.400	0.600	0.620	0.400	0.800	0.500	1.000	0.300	0.200	1.400
GROS ALPHA	0.0	0.0	3.400	0.0	0.0	1.400	1.300	3.000	4.400	5.800	2.400	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.000	9.000	0.0
HARDNESS	685.000	790.000	780.000	690.000	770.000	635.000	575.000	730.000	780.000	780.000	405.000	0.0
PH	6.600	6.600	6.800	6.400	6.600	6.800	6.800	6.600	6.900	6.500	7.200	7.000
CONDUCTANC	1650.000	1740.000	1820.000	1730.000	1920.000	1670.000	1590.000	1850.000	1848.000	1520.000	1410.000	2690.000
DIS SOLIDS	1300.000	1450.000	1460.000	1290.000	1370.000	1240.000	1220.000	1360.000	1380.000	1220.000	1070.000	1700.000
MANGANESE	0.200	0.380	0.200	0.200	0.280	0.200	0.200	0.300	0.060	0.100	0.200	0.300
ALKALINITY	490.000	530.000	490.000	447.000	495.000	399.000	374.000	485.000	530.000	530.000	359.000	490.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.100	0.200	0.200	9.400	0.260	0.050	0.010	0.030	0.400	-0.010	0.600	0.400
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	0.0
NICKEL	0.020	0.040	0.030	0.030	0.020	0.020	0.020	0.030	0.040	0.030	0.020	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
DOC	0.0	0.0	10.000	8.000	6.000	7.000	8.000	8.000	10.000	9.000	10.000	4.200
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.200

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.000
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.010	0.020	0.020	0.500	0.100	0.050	0.050	0.010	0.010	0.100	0.010
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.100	0.200	0.500	0.100	0.100	0.500	0.200	0.500	0.500	0.500	0.200
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.005	0.001	0.010	0.010	0.001	0.010	0.010	0.010	0.010	0.010
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.010	0.100	0.020	0.010	1.000	0.050	0.020	0.050	0.020	0.050	0.020	0.010
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.010	0.010	0.0	0.0	0.0	0.0	0.000	0.001
LITHIUM	0.100	0.500	0.001	0.001	0.0	0.010	0.001	0.001	0.001	0.001	0.001	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000
MANGANESE	0.100	0.200	0.010	0.010	0.010	0.100	0.001	0.010	0.001	0.005	0.010	0.010
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.0	0.0	0.001	0.001	0.010	0.002	0.001	0.0	0.0	0.0	0.010
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.100	0.100	0.100	0.100	1.000	0.100	1.000	0.100	0.100	0.100	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.300	0.100	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	20.000	2.000	5.000	20.000	10.000	5.000	5.000	5.000	5.000	5.000	5.000
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	5.000	5.000	99999.000	99999.000	5.000	5.000	5.000	5.000	5.000	10.000
STRONTIUM	0.100	0.100	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.001	0.001	0.0	0.0	0.001	0.010	0.001	0.001	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.010	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.001	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 173637.82 Y- 240533.37 Z- 6556.00
DATE DRILL COMPL-103074 DATE CONV TO MONITOR- 10475 AQUIFER 1: 360.00-1160.00FT AQUIFER 2: 1980.00-2030.00FT

SAMPLES	13	14	15
DATE	32576	111376	111376
DEPTH	334.60	17.85	143.07
TEMP	51.8	47.9	48.0
LAB ID			
LAB NUM	7935	4327	4326
METHOD	3	3	3
AQUIF.LOC.	L	U	L
WET			
ALUMINUM	0.0	-0.100	-0.100
AMMONIA	0.200	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010
BICARBONAT	325.000	535.000	2580.000
CADMIUM	-0.010	-0.010	-0.010
CALCIUM	16.000	9.500	4.900
CARBONATE	120.000	84.000	170.000
CHLORIDE	4.100	34.000	69.000
CHROMIUM	0.030	0.010	0.010
COPPER	-0.100	-0.100	-0.100
FLUORIDE	4.200	1.900	13.000
HYDROXIDE	0.0	0.0	0.0
IRON	-0.050	0.100	0.100
LEAD	0.100	0.070	0.070
MAGNESIUM	68.000	73.000	26.000
MERCURY	-0.001	-0.001	-0.001
NITRATE	-0.100	0.0	0.0
PHOSPHATE	-0.100	-0.100	0.200
POTASSIUM	2.300	5.000	10.000
SELENIUM	-0.010	-0.010	-0.010
SIL DIOXID	5.200	7.500	12.000
SODIUM	200.000	310.000	1100.000
SULFATE	265.000	360.000	-4.000
SULFIDE	1.600	-0.100	-0.100
ZINC	0.300	-0.100	-0.100
GROS ALPHA	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0
HARDNESS	0.0	325.000	120.000
PH	8.000	7.200	7.200
CONDUCTANC	1220.000	1450.000	6000.000
DIS SOLIDS	865.000	1020.000	2490.000
MANGANESE	0.070	0.100	0.100
ALKALINITY	260.000	505.000	2250.000
CYANIDE	-0.010	-0.010	-0.010
BORON	0.400	0.400	1.200
BARIUM	0.0	0.0	0.0
SILVER	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0
LITHIUM	0.100	1.000	1.0
DOC	15.000	0.0	0.0
NITRITE-N	-0.020	0.200	-0.100
BROMIDE	0.400	-0.100	0.0

SAMPLES	13	14	15
C.O.D.	26.000	20.000	15.000
PHENOLS	-0.001	-0.001	0.060
KJELDAHL N	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0
MOLYBDENUM	0.0	-0.100	0.100
STRONTIUM	0.0	6.200	2.300
VANADIUM	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0
AMMONIA-N	0.0	0.200	12.000
DIS-ORG C	0.0	0.0	0.0
MBAS	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0
SPECTROGRAPHIC			
ALUMINUM	0.001	0.0	0.0
ANTIMONY	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0
BORON	0.200	0.0	0.0
CADMIUM	0.0	0.0	0.0
CALCIUM	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0
COBALT	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0
COPPER	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0
GOLD	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0
IRON	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0
LEAD	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0
MAGNESIUM	99999.000	0.0	0.0
MANGANESE	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0
MOLYBDENUM	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0

SAMPLES	13	14	15
PLATINUM	0.0	0.0	0.0
POTASSIUM	0.0	0.0	0.0
PRASEODYMI	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0
SILICON	5.000	0.0	0.0
SILVER	0.0	0.0	0.0
SODIUM	99999.000	0.0	0.0
STRONTIUM	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0
TIN	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0
ZINC	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 183730.57 Y- 234224.33 Z- 6321.00
DATE DRILL COMPL-110974 DATE CONV TO MONITOR-122674 AQUIFER 1: 100.00-1000.00FT AQUIFER 2: 1450.00-1650.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	42675	50775	60975	71675	71675	82975	82975	32776	32776	111376	111376
DEPTH	20.93	20.77	20.78	22.50	138.13	22.32	21.96	139.63	18.57	139.64	221.98	353.85
TEMP	46.8	47.3	47.[illegible]	46.6	52.7	49.3	51.8	54.5	48.2	48.8	52.0	52.5
LAB ID												
LAB NUM	9020	242	9796	889	1346	1347	2588	2589	7936	7937	4329	4328
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L	U	L	U	L
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	0.100
AMMONIA	0.500	0.500	0.330	0.500	0.700	0.500	0.400	0.200	0.800	1.200	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	555.000	530.000	580.000	435.000	825.000	590.000	630.000	460.000	545.000	500.000	670.000	425.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	42.000	34.000	25.000	25.000	6.600	30.000	38.000	11.000	65.000	29.000	49.000	8.200
CARBONATE	-0.100	8.600	42.000	42.000	-0.100	-0.100	-0.100	84.000	42.000	66.000	-0.100	120.000
CHLORIDE	15.000	27.000	24.000	18.000	6.900	16.000	9.500	11.000	12.000	185.000	41.000	41.000
CHROMIUM	-0.010	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.040	0.020	-0.010	-0.010
COPPER	-0.010	-0.100	0.010	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	1.300	1.400	1.400	1.600	14.000	2.200	2.200	4.800	2.100	18.000	0.100	6.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	7.400	3.900	3.000	2.300	3.100	2.200	16.000	0.900	0.300	5.300	-0.050
LEAD	0.030	0.700	0.210	0.070	0.400	0.200	0.200	2.300	0.300	1.400	0.030	0.020
MAGNESIUM	66.000	72.000	74.000	72.000	14.000	80.000	75.000	50.000	68.000	9.600	170.000	40.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
NITRATE	0.700	0.200	0.200	0.600	0.800	0.300	0.700	0.200	0.400	0.600	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.200	1.400	4.500	19.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	6.900	4.300	1.100	0.600	28.000	21.000	22.000	3.200	21.000	23.000	36.000	1.900
SODIUM	250.000	280.000	225.000	200.000	325.000	280.000	310.000	270.000	320.000	390.000	240.000	265.000
SULFATE	440.000	490.000	400.000	300.000	20.000	465.000	480.000	275.000	540.000	58.000	650.000	150.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.900	0.600	0.200	0.400
ZINC	1.000	0.100	0.220	1.600	0.200	0.600	0.200	13.000	0.200	0.900	-0.100	-0.100
GROS ALPHA	0.0	6.900	0.300	0.0	1.000	2.400	12.000	2.400	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	0.0	0.0	15.000	23.000	0.0	0.0	0.0	0.0
HARDNESS	375.000	380.000	365.000	355.000	76.000	405.000	405.000	230.000	0.0	0.0	810.000	185.000
PH	6.600	6.600	6.500	6.600	7.200	7.100	6.500	7.000	6.500	6.700	6.200	8.000
CONDUCTANC	1600.000	1670.000	1590.000	1540.000	1164.000	1610.000	1540.000	1445.000	1600.000	1145.000	1820.000	1160.000
DIS SOLIDS	1090.000	1180.000	980.000	880.000	820.000	1190.000	1250.000	950.000	1230.000	1090.000	1496.000	960.000
MANGANESE	0.130	0.100	0.100	0.100	-0.050	0.080	0.070	0.300	0.100	0.100	0.100	0.070
ALKALINITY	455.000	437.000	344.000	389.000	675.000	485.000	515.000	444.000	480.000	465.000	550.000	445.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	0.400	0.500	0.520	0.030	0.700	0.600	3.300	0.700	0.400	0.200	0.300	0.700
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	-0.010	0.020	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	0.020	0.020	0.010	0.030	0.020	0.020	0.050	0.050	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	0.200	-0.100	0.300
DOC	0.0	27.000	20.000	17.000	19.000	19.000	6.000	9.000	5.600	8.400	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.400	0.400
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.200	-0.100

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.000	45.000	25.000	22.000
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	-0.001	0.050
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.700	3.600
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.400	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.100	0.010	0.100	0.010	0.100	0.050	0.050	0.010	0.010	0.010	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.200	0.100	0.500	0.500	0.200	0.200	0.200	0.500	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.010	0.001	0.001	0.010	0.010	0.0	0.001	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.010	0.0	0.010	0.020	0.020	0.050	0.050	0.050	0.010	0.010	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.010	0.0	0.0
LITHIUM	0.100	0.010	0.100	0.010	0.001	0.001	0.001	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.050	0.020	0.0	0.001	0.001	0.001	0.010	0.005	0.010	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.002	0.010	0.001	0.002	0.0	0.0	0.0	0.001	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	0.500	0.100	1.000	1.000	1.000	1.000	1.000	0.0	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	2.000	5.000	2.000	2.000	5.000	5.000	2.000	5.000	5.000	0.0	0.0
SILVER	0.0	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	99999.000	10.000	5.000	10.000	10.000	10.000	10.000	99999.000	0.0	0.0
STRONTIUM	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.005	0.0	0.0	0.0	0.001	0.001	0.001	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 156524.43 Y- 238026.20 Z- 7175.00
DATE DRILL COMPL-110674 DATE CONV TO MONITOR-121674 AQUIFER 1: 840.00- 960.00FT AQUIFER 2: 1720.00-1990.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32975	42675	50875	60975	71775	71775	82975	82975	82876	82876	111376	111376
DEPTH	490.82	492.36	492.74	495.00	560.84	492.77	492.19	561.53	568.28	491.60	403.84	569.50
TEMP	54.9	55.4	56.3	56.8	61.7	58.1	59.0	60.2	61.0	57.2	55.4	58.5
LAB ID												
LAB NUM	9022	168	169	891	1349	1350	2590	2758	2137	2136	4331	4330
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	U	L	U	U	L	L	U	U	L
WET												
ALUMINUM	-0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.100	0.200	0.100
AMMONIA	-0.100	-0.100	-0.100	0.200	0.800	0.400	0.700	1.100	0.500	0.800	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	-0.010	-0.010
BICARBONAT	350.000	900.000	900.000	800.000	2980.000	780.000	715.000	1880.000	460.000	690.000	585.000	2610.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	0.020	0.010	-0.010
CALCIUM	200.000	210.000	220.000	130.000	11.000	80.000	-0.010	14.000	42.000	130.000	54.000	6.600
CARBONATE	-0.100	-0.100	-0.100	18.000	130.000	-0.100	-0.100	100.000	36.000	-0.100	24.000	130.000
CHLORIDE	9.700	14.000	21.000	27.000	96.000	16.000	8.100	15.000	9.900	9.900	41.000	41.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.020	-0.010	-0.010
COPPER	-0.010	-0.100	-0.100	-0.100	0.200	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.400	0.200	0.200	0.200	26.000	0.400	0.400	22.000	0.200	0.200	0.200	29.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	-0.050	7.400	6.400	14.000	15.500	18.000	17.000	7.000	-0.050	0.900	6.900	0.060
LEAD	0.020	0.750	0.400	0.400	20.000	0.200	0.400	0.900	0.030	0.090	0.030	-0.010
MAGNESIUM	94.000	89.000	90.000	130.000	45.000	130.000	82.000	43.000	140.000	135.000	135.000	22.000
MERCURY	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	0.002	-0.001	-0.001	-0.001	-0.010
NITRATE	0.300	0.200	-0.100	0.500	0.200	0.100	0.800	0.600	-0.100	-0.100	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.000	6.000	7.000	13.000
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	43.000	45.000	45.000	42.000	14.000	49.000	39.000	14.000	10.000	20.000	20.000	15.000
SODIUM	210.000	270.000	260.000	260.000	1320.000	360.000	260.000	820.000	200.000	200.000	240.000	1140.000
SULFATE	610.000	630.000	600.000	600.000	240.000	780.000	660.000	185.000	740.000	750.000	600.000	100.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.600	1.000	0.400	-0.100
ZINC	0.150	4.400	1.000	0.700	5.500	0.600	0.200	0.500	-0.100	-0.100	-0.100	-0.100
GROS ALPHA	0.0	2.200	5.800	3.400	6.800	0.0	11.000	6.500	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0	47.000	0.0	49.000	52.000	0.0	0.0	0.0	0.0
HARDNESS	890.000	900.000	910.000	870.000	210.000	730.000	805.000	210.000	0.0	0.0	680.000	110.000
PH	6.400	6.800	7.100	6.600	7.400	7.000	6.800	7.600	0.0	0.0	6.200	7.200
CONDUCTANC	2050.000	2240.000	3120.000	2000.000	2975.000	1922.000	2210.000	3600.000	1920.000	2060.000	1750.000	3680.000
DIS SOLIDS	1580.000	1710.000	1680.000	1600.000	3360.000	1820.000	1600.000	2150.000	1480.000	1690.000	1410.000	2490.000
MANGANESE	0.420	0.300	0.300	0.200	0.500	0.200	0.200	0.090	0.200	0.400	0.050	-0.050
ALKALINITY	700.000	740.000	740.000	665.000	2540.000	640.000	585.000	1623.000	405.000	565.000	500.000	2240.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.100	-0.100	0.200	0.040	0.400	0.200	0.200	0.500	2.500	0.200	0.400	0.600
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	1.000	-1.000	0.0	0.0
SILVER	-0.010	-0.010	-0.010	0.020	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	0.030	0.030	0.040	0.030	0.060	0.040	0.040	0.020	0.010	0.010	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.200	-0.100	0.200	-0.100
DOC	0.0	12.000	11.000	6.000	3.500	18.000	12.000	10.000	11.000	8.000	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	0.500	0.300
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	0.100	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.000	31.000	32.000	30.000
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	-0.001	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.010	-0.010	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.050	-0.050	-0.100	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.000	7.000	4.400	1.700
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.050	-0.050	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.500	2.500
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.010	0.200	0.500	0.050	0.100	0.010	0.100	0.050	0.100	0.100	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.500	0.200	0.500	0.500	0.500	0.200	0.500	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.0	0.001	0.010	0.010	0.010	0.001	0.020	0.001	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.020	0.020	0.050	0.050	0.010	0.020	0.020	0.010	0.100	2.000	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
LITHIUM	0.010	0.001	0.0	0.001	0.010	0.001	0.010	0.001	0.020	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.010	0.010	0.050	0.001	0.001	0.001	0.010	0.010	0.0	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.001	0.001	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	0.100	2.000	1.000	0.100	1.000	1.000	1.000	0.100	0.100	0.100	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.100	0.0	0.0	0.0	0.0	0.100	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	10.000	5.000	5.000	5.000	2.000	5.000	2.000	2.000	5.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	10.000	5.000	10.000	99999.000	10.000	5.000	10.000	5.000	0.0	0.0
STRONTIUM	0.100	0.100	0.0	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.001	0.001	0.001	0.0	0.001	0.001	0.001	0.0	0.001	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-RIO BLANCO OIL SHALE PROJECT LOCATIONS: X- 0.0 Y- 0.0 Z- 0.0 MONITOR AQUIFER
DATE DRILL COMPL- 63075 DATE CONV TO MONITOR- 70175 AQUIFER 1: 250.00- 280.00FT AQUIFER 2: 0.0 - 0.0 FT

SAMPLES	1	2	3	4	5	6	7
DATE	71675	82975	121275	12876	21876	32576	111376
DEPTH	236.39	236.13	235.24	235.70	235.64	235.51	235.84
TEMP	53.6	50.3	53.5	50.0	50.0	49.8	57.2
LAB ID							
LAB NUM	1351	2759	5234	6298	6765	7942	4332
METHOD	3	3	3	3	3	3	3
AQUIF.LOC.	M	M	M	M	M	M	X
WET							
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
AMMONIA	0.600	0.800	0.200	0.400	1.100	0.200	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	450.000	465.000	420.000	430.000	460.000	400.000	425.000
CADMIUM	-0.010	-0.010	-0.010	0.020	0.010	-0.010	0.020
CALCIUM	28.000	24.000	34.000	41.000	28.000	42.000	33.000
CARBONATE	10.000	-0.100	-0.100	-0.100	-0.100	36.000	24.000
CHLORIDE	23.000	11.000	21.000	23.000	19.000	17.000	41.000
CHROMIUM	-0.010	-0.010	-0.010	-0.010	-0.100	0.010	-0.010
COPPER	-0.100	-0.100	0.700	1.700	0.300	0.200	-0.100
FLUORIDE	0.300	0.500	0.300	0.200	0.200	0.200	0.300
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	16.900	8.300	9.000	14.000	16.000	0.100	2.300
LEAD	0.300	0.700	0.200	0.500	0.200	0.300	-0.010
MAGNESIUM	62.000	67.000	50.000	42.000	63.000	44.000	34.000
MERCURY	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	-0.001
NITRATE	0.300	5.500	0.300	0.300	1.300	0.100	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	1.800	8.500
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	9.200	10.000	7.400	9.000	13.000	9.400	8.100
SODIUM	780.000	870.000	850.000	780.000	700.000	770.000	740.000
SULFATE	1520.000	1740.000	1720.000	1520.000	1350.000	1400.000	1300.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	1.900	0.200
ZINC	1.100	1.200	0.500	1.200	0.400	0.900	-0.100
GROS ALPHA	3.900	17.000	16.000	31.000	0.0	0.0	0.0
GROSS BETA	44.000	43.000	74.000	16.000	0.0	0.0	0.0
HARDNESS	325.000	335.000	290.000	280.000	330.000	0.0	220.000
PH	6.900	6.600	6.800	7.000	6.600	6.800	7.800
CONDUCTANC	3300.000	3430.000	3400.000	3370.000	4000.000	3200.000	3000.000
DIS SOLIDS	2670.000	2960.000	2880.000	2620.000	2560.000	2610.000	2580.000
MANGANESE	0.900	0.600	0.300	4.800	0.600	0.900	0.060
ALKALINITY	370.000	380.000	340.000	350.000	375.000	355.000	365.000
CYANIDE	-0.010	-0.010	0.020	-0.010	-0.010	-0.010	-0.010
BORON	0.200	0.800	0.300	0.200	1.200	0.300	0.400
BARIUM	-1.000	-1.000	0.300	-1.000	-1.000	0.0	0.0
SILVER	-0.010	-0.010	-0.010	0.020	-0.010	0.0	0.0
NICKEL	0.060	0.070	0.030	0.100	0.030	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.100	0.200
DOC	8.000	6.000	3.000	5.000	0.0	5.300	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	-0.020	-0.100
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.200	-0.100

SAMPLES	1	2	3	4	5	6	7
C.O.D.	0.0	0.0	0.0	0.0	0.0	26.000	35.000
PHENOLS	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	5.700
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.400
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC							
ALUMINUM	0.050	0.005	0.500	2.000	0.100	0.010	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.001	0.0	0.0	0.010	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.200	0.500	0.500	0.010	0.200	0.200	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.001	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.001	0.005	0.020	0.050	0.050	0.010	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.050	0.100	2.000	0.500	0.010	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.001	0.100	0.020	0.0	0.0
LITHIUM	0.001	0.001	0.001	0.0	0.010	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	5.000	99999.000	0.0
MANGANESE	0.005	0.001	0.000	0.500	0.010	0.010	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.010	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.001	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	1.000	0.100	1.000	0.010	0.100	0.010	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.300	0.0	0.200	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.100	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	2.000	5.000	5.000	10.000	2.000	5.000	0.0
SILVER	0.0	0.0	0.001	0.0	0.0	0.0	0.0
SODIUM	10.000	5.000	5.000	2.000	99999.000	10.000	0.0
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.001	0.001	0.050	0.001	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.010	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.001	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.010	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.020	0.005	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-TOSCO LOCATIONS: X- 158653.14 Y- 223381.59 Z- 6741.00
DATE DRILL COMPL-102373 DATE CONV TO MONITOR-111974 AQUIFER 1: 220.00- 440.00FT AQUIFER 2: 820.00-1100.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
DATE	42875	51775	61075	71475	71475	82875	82875	32776	32776	111276	111076
DEPTH	25.60	26.90	26.10	125.37	23.57	22.34	125.86	20.53	131.78	23.64	137.61
TEMP	46.4	48.9	46.4	59.9	56.3	55.7	53.6	50.9	54.5	49.0	55.7
LAB ID											
LAB NUM	172	433	893	1355	1356	2760	2761	7938	7939	4321	4320
METHOD	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	U	U	U	L	U	U	L	U	L	U	L
WET											
ALUMINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0.500
AMMONIA	-0.100	0.800	0.800	0.600	0.300	0.400	0.200	0.600	0.900	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BICARBONAT	110.000	98.000	150.000	1170.000	255.000	435.000	915.000	410.000	815.000	325.000	1160.000
CADMIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.010
CALCIUM	17.000	8.000	6.600	15.000	9.000	20.000	9.800	28.000	12.000	8.200	8.200
CARBONATE	-0.100	6.000	18.000	-0.100	42.000	-0.100	60.000	42.000	100.000	110.000	-0.100
CHLORIDE	36.000	34.000	41.000	23.000	16.000	9.500	5.400	9.700	9.700	9.600	9.600
CHROMIUM	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.050	0.020	0.010	-0.010
COPPER	0.190	0.100	-0.100	-0.100	-0.100	0.100	-0.100	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.600	0.700	0.800	18.000	1.000	1.700	14.000	1.700	16.000	1.300	17.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	8.700	4.800	7.000	0.900	3.900	7.000	8.500	0.600	0.090	-0.090	0.060
LEAD	3.400	1.000	0.800	0.090	0.300	0.200	1.000	0.010	0.300	0.080	0.060
MAGNESIUM	12.000	3.900	20.000	21.000	29.000	45.000	18.000	40.000	15.000	33.000	9.600
MERCURY	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
NITRATE	-0.100	-0.100	0.400	0.400	1.100	0.200	0.100	0.100	0.100	0.0	0.0
PHOSPHATE	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.000	1.100	1.700	4.500
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	1.900	0.500	0.400	17.000	13.000	18.000	13.000	16.000	11.000	6.600	11.000
SODIUM	140.000	170.000	160.000	500.000	470.000	200.000	380.000	150.000	360.000	200.000	440.000
SULFATE	270.000	275.000	230.000	155.000	220.000	170.000	15.000	155.000	25.000	110.000	20.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	26.000	0.0	1.600	-0.100	3.200	1.300
ZINC	1.600	0.400	0.500	0.800	0.300	2.000	0.800	0.500	0.600	-0.100	-0.100
GROS ALPHA	0.500	2.400	1.100	6.400	2.400	4.900	4.800	0.0	0.0	0.0	0.0
GROSS BETA	5.000	0.0	0.0	0.0	11.000	18.000	14.000	0.0	0.0	0.0	0.0
HARDNESS	90.000	36.000	100.000	125.000	140.000	235.000	100.000	0.0	0.0	160.000	60.000
PH	6.000	6.800	7.000	7.300	7.200	7.100	7.800	7.600	7.000	7.800	6.900
CONDUCTANC	810.000	810.000	890.000	1891.000	889.000	1065.000	1120.000	868.000	1250.000	920.000	1440.000
DIS SOLIDS	540.000	550.000	560.000	1320.000	900.000	680.000	970.000	735.000	1080.000	555.000	1000.000
MANGANESE	0.560	0.200	0.200	-0.050	0.200	1.000	0.080	0.900	0.080	0.050	-0.050
ALKALINITY	90.000	35.000	105.000	960.000	244.000	355.000	299.000	370.000	750.000	350.000	955.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.080	-0.010
BORON	-0.100	-0.010	0.010	1.000	0.800	0.700	0.800	1.100	0.400	0.300	0.300
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	0.0	0.0	0.0	0.0
SILVER	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	0.0	0.0	0.0	0.0
NICKEL	0.040	0.030	0.020	0.020	0.020	0.100	0.020	0.0	0.0	0.0	0.0
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100	0.500	-0.100
DOC	21.000	17.000	10.000	14.000	18.000	18.000	8.000	4.700	7.100	0.0	0.0
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	0.400	0.100
BROMIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.020	-0.020	-0.100	-0.100

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	275.000	55.000	44.000	13.800
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.001	-0.001	0.044	0.002
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.800	0.400
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.300	0.900
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC											
ALUMINUM	0.050	0.200	0.050	0.050	0.050	0.100	0.010	0.010	0.020	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.500	0.500	0.200	0.200	0.500	0.500	0.500	0.500	0.200	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.005	0.005	0.010	0.010	0.005	0.005	0.001	0.001	0.001	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.050	0.100	0.050	0.050	0.020	0.020	0.050	0.010	0.020	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.001	0.0	0.0
LITHIUM	0.010	0.001	0.010	0.001	0.001	0.010	0.010	0.0	0.0	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	0.0	0.0
MANGANESE	0.010	0.005	0.005	0.001	0.005	0.001	0.005	0.010	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.005	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER QUALITY ANALYSIS RESULTS -- CORE HOLE ID TO-1

SAMPLES	1	2	3	4	5	6	7	8	9	10	11
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	2.000	2.000	1.000	1.000	1.000	1.000	1.000	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	99999.000	10.000	10.000	5.000	5.000	10.000	10.000	99999.000	99999.000	0.0	0.0
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.010	0.005	0.001	0.001	0.0	0.0	0.0	0.001	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-TOSCO LOCATIONS: X- 151813.11 Y- 229906.56 Z- 6993.00
DATE DRILL COMPL-110473 DATE CONV TO MONITOR-111774 AQUIFER 1: 220.00- 310.00FT AQUIFER 2: 940.00-1020.00FT

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
DATE	32475	42875	42975	51775	51775	61075	61075	71775	71775	71775	83075	83075
DEPTH	340.30	119.60	361.90	118.30	354.40	356.20	116.50	354.42	115.70	354.42	114.60	355.48
TEMP	53.6	50.0	56.3	53.6	56.5	55.6	51.6	58.1	54.5	60.8	56.6	63.0
LAB ID												
LAB NUM	8162	174	173	435	434	894	895	1357	1358	1541	2762	2763
METHOD	3	3	3	3	3	3	3	3	3	3	3	3
AQUIF.LOC.	L	U	L	U	L	L	U	L	U	L	U	L
WET												
ALUMINUM	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA	1.400	-0.100	0.400	0.300	0.200	0.300	0.400	-0.100	0.400	0.200	1.200	0.700
ARSENIC	-0.010	-0.010	-0.010	0.020	-0.010	-0.010	-0.010	-0.010	0.010	-0.010	-0.010	-0.010
BICARBONAT	370.000	600.000	520.000	575.000	310.000	330.000	540.000	340.000	565.000	435.000	500.000	990.000
CADMIUM	-0.001	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
CALCIUM	18.000	97.000	21.000	110.000	5.000	8.200	79.000	6.600	19.000	4.900	28.000	17.000
CARBONATE	30.000	-0.100	120.000	-0.100	36.000	45.000	6.000	42.000	-0.100	60.000	-0.100	48.000
CHLORIDE	15.000	87.000	21.000	20.000	14.000	20.000	20.000	12.000	9.600	9.600	14.000	12.000
CHROMIUM	-0.010	-0.050	-0.050	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
COPPER	0.100	0.100	-0.100	-0.100	0.100	0.100	0.100	0.200	0.500	0.300	0.200	-0.100
FLUORIDE	4.800	0.200	1.800	0.200	0.700	0.900	0.200	0.800	0.200	1.200	0.400	12.000
HYDROXIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	3.100	7.500	2.000	16.000	5.000	6.900	7.900	2.300	16.600	1.400	7.100	2.900
LEAD	0.003	1.600	0.200	0.500	0.200	0.300	0.400	0.300	1.500	0.400	0.200	0.500
MAGNESIUM	48.000	70.000	15.000	30.000	51.000	54.000	59.000	50.000	88.000	53.000	83.000	34.000
MERCURY	0.001	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.002	-0.002	-0.002	-0.002	-0.002
NITRATE	-0.100	0.600	0.100	-0.100	-0.100	0.100	0.700	0.200	0.800	0.200	3.000	0.400
PHOSPHATE	-0.100	-0.100	-0.100	0.300	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
POTASSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	9.500	35.000	2.700	40.000	2.000	0.700	35.000	1.700	37.000	1.900	35.000	14.000
SODIUM	210.000	250.000	400.000	170.000	190.000	180.000	190.000	185.000	200.000	285.000	210.000	400.000
SULFATE	320.000	330.000	310.000	200.000	305.000	250.000	300.000	255.000	305.000	255.000	370.000	180.000
SULFIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.100	0.900	0.400	0.300	0.800	0.500	0.300	0.300	1.000	2.300	0.400	0.300
GROS ALPHA	1.600	3.400	1.700	4.000	6.300	3.400	5.600	1.900	2.800	1.600	19.000	5.400
GROSS BETA	21.000	0.0	830.000	0.0	0.0	0.0	0.0	0.0	4.000	6.000	13.000	51.000
HARDNESS	240.000	530.000	110.000	400.000	220.000	240.000	440.000	220.000	410.000	230.000	410.000	180.000
PH	6.400	6.800	6.800	6.600	7.200	7.200	6.200	7.300	7.000	7.400	6.800	7.000
CONDUCTANC	1130.000	1390.000	1120.000	1420.000	1100.000	1150.000	1410.000	1091.000	1430.000	1080.000	1390.000	1910.000
DIS SOLIDS	840.000	1230.000	1150.000	870.000	760.000	730.000	960.000	720.000	950.000	885.000	1000.000	1250.000
MANGANESE	0.140	0.200	0.050	0.100	0.060	0.070	0.200	0.070	0.300	-0.050	0.200	0.050
ALKALINITY	335.000	490.000	520.000	470.000	280.000	307.000	445.000	314.000	465.000	404.000	410.000	849.000
CYANIDE	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
BORON	-0.010	-0.100	1.100	0.300	0.400	0.050	0.100	0.200	0.080	0.400	0.400	1.000
BARIUM	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
SILVER	0.002	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010	-0.010
NICKEL	0.002	0.040	0.030	0.020	0.020	0.020	0.020	0.020	0.020	0.010	0.020	0.020
LITHIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOC	0.0	8.000	17.000	6.000	15.000	14.000	5.000	11.000	5.000	7.000	9.000	7.000
NITRITE-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]IDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
C.O.D.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHENOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KJELDAHL N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIS-ORG C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPECTROGRAPHIC												
ALUMINUM	0.050	0.100	0.100	0.500	0.100	0.010	0.005	0.100	0.050	0.100	0.100	0.050
ANTIMONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BORON	0.100	0.500	0.200	0.500	0.200	0.500	0.200	0.200	0.200	0.200	0.500	0.500
CADMIUM	99999.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALCIUM	0.0	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	10.000	99999.000	10.000	99999.000
CERIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COPPER	0.010	0.010	0.001	0.010	0.010	0.001	0.001	0.010	0.010	0.010	0.010	0.005
DYSPROSIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRON	0.100	0.100	0.100	0.100	0.010	0.050	0.020	0.020	0.050	0.050	0.010	0.020
LANTHANUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
LITHIUM	0.010	0.0	0.010	0.0	0.0	0.001	0.010	0.010	0.010	0.001	0.010	0.001
LUTETIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	99999.000	10.000	99999.000	10.000	99999.000
MANGANESE	0.010	0.010	0.010	0.010	0.0	0.010	0.0	0.005	0.005	0.100	0.010	0.005
MERCURY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	0.001	0.0	0.001	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001
NEODYMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLES	1	2	3	4	5	6	7	8	9	10	11	12
PLATINUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POTASSIUM	2.000	2.000	5.000	1.000	1.000	1.000	1.000	1.000	1.000	0.500	1.000	0.100
PRASEODYMI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.200
RHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SILICON	5.000	5.000	2.000	5.000	5.000	5.000	5.000	5.000	2.000	10.000	5.000	5.000
SILVER	0.000	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SODIUM	5.000	99999.000	99999.000	5.000	5.000	5.000	10.000	10.000	10.000	99999.000	10.000	5.000
STRONTIUM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
TANTALUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	0.001	0.001	0.001	0.010	0.0	0.001	0.0	0.0	0.001	0.010	0.0	0.001
TUNGSTEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	-1.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JCB#-741-40 OWNER-TOSCO LOCATIONS: X- 151813.11 Y- 229906.56 Z- 6993.00
DATE DRILL COMPL-110473 DATE CONV TO MONITOR-111774 AQUIFER 1: 220.00- 310.00FT AQUIFER 2: 940.00-1020.00FT

SAMPLES	13	14	15	16
DATE	32676	32676	111276	111276
DEPTH	112.57	361.01	111.42	366.86
TEMP	50.9	59.5	51.5	58.0
LAB ID				
LAB NUM	7940	7941	4323	4322
METHOD	3	3	3	3
AQUIF.LOC.	U	L	U	L
WET				
ALUMINUM	0.0	0.0	0.100	0.100
AMMONIA	0.700	0.200	0.0	0.0
ARSENIC	-0.010	-0.010	-0.010	-0.010
BICARBONAT	520.000	275.000	580.000	465.000
CADMIUM	-0.010	-0.010	-0.010	-0.010
CALCIUM	76.000	8.200	80.000	6.600
CARBONATE	-0.100	100.000	-0.100	78.000
CHLORIDE	11.000	14.000	9.600	11.000
CHROMIUM	0.050	0.030	0.010	0.020
COPPER	-0.100	-0.100	-0.100	-0.100
FLUORIDE	0.500	1.700	0.100	2.200
HYDROXIDE	0.0	0.0	0.0	0.0
IRON	0.700	-0.050	-0.050	-0.050
LEAD	0.070	0.070	0.070	0.060
MAGNESIUM	63.000	47.000	55.000	43.000
MERCURY	-0.001	-0.001	-0.001	-0.001
NITRATE	0.100	0.100	0.0	0.400
PHOSPHATE	-0.100	-0.100	-0.100	-0.100
POTASSIUM	1.100	1.000	2.000	2.000
SELENIUM	-0.010	-0.010	-0.010	-0.010
SIL DIOXID	38.000	0.600	39.000	2.400
SODIUM	180.000	195.000	195.000	200.000
SULFATE	350.000	230.000	305.000	140.000
SULFIDE	3.500	1.300	-0.100	3.200
ZINC	0.300	0.300	-0.100	-0.100
GROS ALPHA	0.0	0.0	0.0	0.0
GROSS BETA	0.0	0.0	0.0	0.0
HARDNESS	0.0	0.0	425.000	210.000
PH	6.600	7.600	0.0	6.000
CONDUCTANC	1360.000	1070.000	0.0	1200.000
DIS SOLIDS	1060.000	795.000	700.000	625.000
MANGANESE	0.200	0.050	0.200	-0.050
ALKALINITY	425.000	310.000	475.000	445.000
CYANIDE	-0.010	-0.010	0.020	0.080
HCRBN	0.300	3.100	0.300	0.300
BARIUM	0.0	0.0	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
LITHIUM	-0.100	-0.100	1.000	0.300
[illegible]	5.400	7.200	0.0	0.0
NITRITE-N	-0.020	-0.020	0.200	0.400
BROMIDE	0.200	0.100	-0.100	-0.100

SAMPLES	13	14	15	16
C.O.D.	105.000	17.000	9.800	25.000
PHENOLS	-0.001	-0.001	0.015	0.166
KJELDAHL N	0.0	0.0	0.0	0.0
BERYLLIUM	0.0	0.0	0.0	0.0
MOLYBDENUM	0.0	0.0	-0.100	-0.100
STRONTIUM	0.0	0.0	0.200	0.200
VANADIUM	0.0	0.0	0.0	0.0
ORTHO PHOS	0.0	0.0	0.0	0.0
AMMONIA-N	0.0	0.0	0.500	0.400
DIS-ORG C	0.0	0.0	0.0	0.0
MBAS	0.0	0.0	0.0	0.0
TOT COLIF	0.0	0.0	0.0	0.0
FEC COLIF	0.0	0.0	0.0	0.0
5-DAY B.O.	0.0	0.0	0.0	0.0
SPECTROGRAPHIC				
ALUMINUM	0.010	0.001	0.0	0.0
ANTIMONY	0.0	0.0	0.0	0.0
ARSENIC	0.0	0.0	0.0	0.0
BARIUM	0.0	0.0	0.0	0.0
BERYLIUM	0.0	0.0	0.0	0.0
BISMUTH	0.0	0.0	0.0	0.0
BORON	0.200	0.500	0.0	0.0
CADMIUM	0.0	0.0	0.0	0.0
CALCIUM	99999.000	99999.000	0.0	0.0
CERIUM	0.0	0.0	0.0	0.0
CESIUM	0.0	0.0	0.0	0.0
CHROMIUM	0.0	0.0	0.0	0.0
COBOLT	0.0	0.0	0.0	0.0
COLUMBIUM	0.0	0.0	0.0	0.0
COPPER	0.001	0.010	0.0	0.0
DYSPROSIUM	0.0	0.0	0.0	0.0
ERBIUM	0.0	0.0	0.0	0.0
EUROPIUM	0.0	0.0	0.0	0.0
GADOLINIUM	0.0	0.0	0.0	0.0
GALLIUM	0.0	0.0	0.0	0.0
GERMANIUM	0.0	0.0	0.0	0.0
GOLD	0.0	0.0	0.0	0.0
HAFNIUM	0.0	0.0	0.0	0.0
HOLMIUM	0.0	0.0	0.0	0.0
INDIUM	0.0	0.0	0.0	0.0
IRIDIUM	0.0	0.0	0.0	0.0
IRON	0.010	0.050	0.0	0.0
LANTHANUM	0.0	0.0	0.0	0.0
LEAD	0.001	0.001	0.0	0.0
LITHIUM	0.001	0.010	0.0	0.0
LUTETIUM	0.0	0.0	0.0	0.0
MAGNESIUM	99999.000	99999.000	0.0	0.0
MANGANESE	0.010	0.010	0.0	0.0
MERCURY	0.0	0.0	0.0	0.0
MOLYBDENUM	0.010	0.020	0.0	0.0
NEODYMIUM	0.0	0.0	0.0	0.0
NICKEL	0.0	0.0	0.0	0.0
OSMIUM	0.0	0.0	0.0	0.0
PALLADIUM	0.0	0.0	0.0	0.0

SAMPLES	13	14	15	16
PLATINUM	0.0	0.0	0.0	0.0
POTASSIUM	0.010	0.010	0.0	0.0
PRASEODYMI	0.0	0.0	0.0	0.0
RADIUM	0.0	0.0	0.0	0.0
RHENIUM	0.0	0.0	0.0	0.0
RHODIUM	0.0	0.0	0.0	0.0
RUBIDIUM	0.0	0.0	0.0	0.0
RUTHENIUM	0.0	0.0	0.0	0.0
SAMARIUM	0.0	0.0	0.0	0.0
SCANDIUM	0.0	0.0	0.0	0.0
SELENIUM	0.0	0.0	0.0	0.0
SILICON	2.000	5.000	0.0	0.0
SILVER	0.0	0.0	0.0	0.0
SODIUM	99999.000	99999.000	0.0	0.0
STRONTIUM	0.100	0.100	0.0	0.0
TANTALUM	0.0	0.0	0.0	0.0
TERBIUM	0.0	0.0	0.0	0.0
THALLIUM	0.0	0.0	0.0	0.0
THORIUM	0.0	0.0	0.0	0.0
THULIUM	0.0	0.0	0.0	0.0
TIN	0.0	0.0	0.0	0.0
TITANIUM	0.0	0.0	0.0	0.0
TUNGSTEN	0.0	0.0	0.0	0.0
URANIUM	0.0	0.0	0.0	0.0
VANADIUM	0.0	0.0	0.0	0.0
YTTERBIUM	0.0	0.0	0.0	0.0
YTTRIUM	0.0	0.0	0.0	0.0
ZINC	0.0	0.0	0.0	0.0
ZIRCONIUM	0.0	0.0	0.0	0.0

JOB#-741-40 OWNER-TOSCO LOCATIONS: X- 163350.43 Y- 228948.10 Z- 6652.00
DATE DRILL COMPL-103073 DATE CONV TO MONITOR-101674 AQUIFER 1: 350.00- 440.00FT AQUIFER 2: 1375.00-1540.00FT

SAMPLES	1	2
DATE	32175	42275
DEPTH	48.38	48.50
TEMP	64.0	59.9
LAB ID		
LAB NUM	8161	175
METHOD	3	3
AQUIF.LOC.	U	U
WET		
ALUMINUM	-0.010	0.0
AMMONIA	0.0	1.300
ARSENIC	-0.010	-0.010
BICARBONAT	2520.000	2170.000
CADMIUM	-0.001	-0.010
CALCIUM	34.000	29.000
CARBONATE	-0.100	170.000
CHLORIDE	55.000	50.000
CHROMIUM	-0.010	0.050
COPPER	-0.010	-0.100
FLUORIDE	60.000	27.000
HYDROXIDE	0.0	0.0
IRON	0.310	4.700
LEAD	0.002	0.200
MAGNESIUM	18.000	22.000
MERCURY	0.007	-0.010
NITRATE	-0.100	0.300
PHOSPHATE	-0.100	-0.100
POTASSIUM	0.0	0.0
SELENIUM	-0.010	-0.010
SIL DIOXID	26.000	35.000
SODIUM	1060.000	1170.000
SULFATE	140.000	65.000
SULFIDE	0.0	0.0
ZINC	-0.100	0.200
GROS ALPHA	4.000	18.000
GROSS BETA	38.000	0.0
HARDNESS	155.000	160.000
PH	7.000	7.400
CONDUCTANC	3610.000	3900.000
DIS SOLIDS	2630.000	2850.000
MANGANESE	0.240	-0.050
ALKALINITY	2065.000	2360.000
CYANIDE	-0.010	-0.010
BORON	0.150	4.400
BARIUM	-1.000	-1.000
SILVER	-0.001	-0.010
NICKEL	0.007	0.050
LITHIUM	0.0	0.0
DOC	0.0	7.000
NITRITE-N	0.0	0.0
[illegible]	[illegible]	[illegible]

SAMPLES	1	2
C.O.D.	0.0	0.0
PHENOLS	0.0	0.0
KJELDAHL N	0.0	0.0
BERYLLIUM	0.0	0.0
MOLYBDENUM	0.0	0.0
STRONTIUM	0.0	0.0
VANADIUM	0.0	0.0
ORTHO PHOS	0.0	0.0
AMMONIA-N	0.0	0.0
DIS-ORG C	0.0	0.0
MBAS	0.0	0.0
TOT COLIF	0.0	0.0
FEC COLIF	0.0	0.0
5-DAY B.O.	0.0	0.0
SPECTROGRAPHIC		
ALUMINUM	0.100	0.100
ANTIMONY	0.0	0.0
ARSENIC	0.0	0.0
BARIUM	0.010	0.0
BERYLIUM	0.0	0.0
BISMUTH	0.0	0.0
BORON	0.100	0.200
CADMIUM	0.0	0.0
CALCIUM	99999.000	10.000
CERIUM	0.0	0.0
CESIUM	0.0	0.0
CHROMIUM	0.0	0.0
COBOLT	0.0	0.0
COLUMBIUM	0.0	0.0
COPPER	0.001	0.001
DYSPROSIUM	0.0	0.0
ERBIUM	0.0	0.0
EUROPIUM	0.0	0.0
GADOLINIUM	0.0	0.0
GALLIUM	0.0	0.0
GERMANIUM	0.0	0.0
GOLD	0.0	0.0
HAFNIUM	0.0	0.0
HOLMIUM	0.0	0.0
INDIUM	0.0	0.0
IRIDIUM	0.0	0.0
IRON	0.050	0.020
LANTHANUM	0.0	0.0
LEAD	0.0	0.0
LITHIUM	0.050	0.010
LUTETIUM	0.0	0.0
MAGNESIUM	99999.000	2.000
MANGANESE	0.001	0.001
MERCURY	0.0	0.0
MOLYBDENUM	0.001	0.0
NEODYMIUM	0.0	0.0
NICKEL	0.0	0.0
OSMIUM	0.0	0.0
PALLADIUM	0.0	0.0

SAMPLES	1	2
PLATINUM	0.0	0.0
POTASSIUM	5.000	5.000
PRASEODYMI	0.0	0.0
RADIUM	0.0	0.500
RHENIUM	0.0	0.0
RHODIUM	0.0	0.0
RUBIDIUM	0.0	0.0
RUTHENIUM	0.0	0.0
SAMARIUM	0.0	0.0
SCANDIUM	0.0	0.0
SELENIUM	0.0	0.0
SILICON	2.000	2.000
SILVER	0.0	0.0
SODIUM	99999.000	99999.000
STRONTIUM	0.100	0.010
TANTALUM	0.0	0.0
TERBIUM	0.0	0.0
THALLIUM	0.0	0.0
THORIUM	0.0	0.0
THULIUM	0.0	0.0
TIN	0.0	0.0
TITANIUM	0.001	0.0
TUNGSTEN	0.0	0.0
URANIUM	0.0	0.0
VANADIUM	0.0	0.0
YTTERBIUM	0.0	0.0
YTTRIUM	0.0	0.0
ZINC	0.0	0.0
ZIRCONIUM	0.0	0.0

WATER QUALITY ANALYSIS SUMMARY

SAMPLE ITEM RANGE AND AVERAGE

ITEM	LOWER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	UPPER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
WET										
ALUMINUM	-0.010	1.000	0.300	33	0.297	-0.010	1.000	0.142	41	0.214
AMMONIA	0.020	9.600	0.724	101	1.012	-0.100	1.800	0.426	142	0.352
ARSENIC	-0.010	0.030	0.000	123	0.003	-0.010	0.050	0.001	167	0.006
BICARBONAT	260.000	3310.000	1108.374	123	815.660	85.000	2760.000	615.553	168	494.654
CADMIUM	-0.001	0.020	0.002	123	0.006	-0.001	0.100	0.002	168	0.009
CALCIUM	0.800	98.000	16.078	123	18.451	-0.010	260.000	60.010	168	54.976
CARBONATE	-0.100	710.000	60.715	123	113.104	-0.100	335.000	26.388	168	48.740
CHLORIDE	-0.100	185.000	32.997	123	33.331	-0.100	87.000	17.857	168	16.393
CHROMIUM	-0.010	-0.050	0.004	121	0.009	-0.010	0.050	0.003	167	0.010
COPPER	-0.010	0.300	0.018	123	0.050	-0.010	0.800	0.021	168	0.098
FLUORIDE	0.200	85.000	15.942	123	15.700	0.100	60.000	2.906	168	8.479
HYDROXIDE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
IRON	-0.050	16.200	2.720	123	3.625	-0.005	36.000	4.970	168	5.335
LEAD	0.003	26.000	0.822	123	2.977	0.002	3.800	0.352	168	0.534
MAGNESIUM	1.900	140.000	30.581	123	28.439	3.500	200.000	59.421	168	37.088
MERCURY	-0.001	-0.010	0.000	123	0.000	-0.001	0.045	0.000	168	0.004
NITRATE	-0.100	2.000	0.329	102	0.391	-0.010	7.000	0.581	146	1.110
PHOSPHATE	-0.100	1.000	0.041	123	0.138	-0.010	1.000	0.018	168	0.093
POTASSIUM	-1.000	19.000	4.252	44	4.193	-1.000	11.000	2.922	45	2.459
SELENIUM	-0.010	-0.100	0.0	123	0.0	-0.001	-0.010	0.0	168	0.0
SIL DIOXID	-0.100	60.000	10.072	123	8.323	-0.100	58.000	25.622	168	15.643
SODIUM	155.000	1560.000	530.122	123	381.347	32.000	1170.000	273.167	168	221.695
SULFATE	-4.000	740.000	163.610	123	151.638	-4.000	900.000	357.024	168	185.697
SULFIDE	-0.010	6.500	1.036	44	1.212	0.030	49.000	3.301	46	9.714
ZINC	0.020	68.000	1.163	123	6.275	-0.010	15.000	0.679	168	1.494
GROS ALPHA	0.100	30.000	5.741	71	6.080	0.200	29.000	5.334	97	5.144
GROSS BETA	3.000	830.000	50.583	36	134.942	2.000	73.000	22.464	29	18.558
HARDNESS	20.000	690.000	169.861	101	153.023	32.000	1110.000	392.648	145	234.534
PH	6.000	11.000	7.270	120	0.675	6.000	8.800	6.816	165	0.463
CONDUCTANC	845.000	6000.000	2019.980	122	1181.373	810.000	4200.000	1591.623	167	741.923
DIS SOLIDS	540.000	3640.000	1419.715	123	799.393	530.000	2850.000	1129.470	168	506.343
MANGANESE	-0.050	0.800	0.086	123	0.118	-0.010	1.700	0.187	168	0.211
ALKALINITY	52.000	4500.000	975.927	123	788.579	70.000	2390.000	530.878	168	443.722
CYANIDE	-0.010	0.080	0.002	122	0.009	-0.010	0.100	0.002	167	0.012
BORON	-0.010	9.400	1.301	123	1.530	-0.010	4.800	0.622	168	0.939
BARIUM	-0.100	1.000	0.012	81	0.111	-0.100	-1.000	0.0	125	0.0
SILVER	-0.001	0.100	0.002	79	0.011	-0.001	0.100	0.006	123	0.019
NICKEL	-0.001	0.100	0.025	81	0.018	-0.001	0.200	0.026	125	0.027
LITHIUM	-0.100	1.000	0.109	44	0.197	-0.100	1.000	0.122	45	0.280
DOC	3.000	73.000	12.143	92	8.656	1.000	50.000	10.133	129	7.208
NITRITE-N	-0.020	0.600	0.149	43	0.198	-0.020	0.600	0.157	44	0.192
BROMIDE	-0.020	0.400	0.018	38	0.068	-0.020	0.300	0.062	43	0.121
C.O.D.	-0.100	92.000	22.941	44	18.900	-0.100	400.000	48.233	45	75.591
PHENOLS	-0.001	1.000	0.034	44	0.152	-0.001	0.174	0.010	45	0.029
KJELDAHL N	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
BERYLLIUM	-0.010	-0.100	0.0	2	0.0	-0.010	-0.010	0.0	2	0.0
MOLYBDENUM	-0.050	0.200	0.017	24	0.048	-0.050	1.800	0.142	24	0.419
STRONTIUM	0.100	5.000	1.312	24	1.288	0.100	11.700	4.612	24	3.037
VANADIUM	-0.050	-0.050	0.0	2	0.0	-0.050	-0.050	0.0	2	0.0

WATER QUALITY ANALYSIS SUMMARY

SAMPLE ITEM RANGE AND AVERAGE

ITEM	LOWER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	UPPER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
WET										
ALUMINUM	-0.010	1.000	0.300	33	0.297	-0.010	1.000	0.142	41	0.214
AMMONIA	0.020	9.600	0.724	101	1.012	-0.100	1.800	0.426	142	0.352
ARSENIC	-0.010	0.030	0.000	123	0.003	-0.010	0.050	0.001	167	0.006
BICARBONAT	260.000	3310.000	1108.374	123	815.660	85.000	2760.000	615.553	168	494.654
CADMIUM	-0.001	0.020	0.002	123	0.006	-0.001	0.100	0.002	168	0.009
CALCIUM	0.800	98.000	16.078	123	18.451	-0.010	260.000	60.010	168	54.976
CARBONATE	-0.100	710.000	30.715	123	113.104	-0.100	335.000	26.388	168	48.740
CHLORIDE	-0.100	185.000	32.997	123	33.331	-0.100	87.000	17.857	168	16.393
CHROMIUM	-0.010	-0.050	0.004	121	0.009	-0.010	0.050	0.003	167	0.010
COPPER	-0.010	0.300	0.018	123	0.050	-0.010	0.800	0.021	168	0.098
FLUORIDE	0.200	85.000	15.942	123	15.700	0.100	60.000	2.906	168	8.479
HYDROXIDE	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
IRON	-0.050	16.200	2.720	123	3.625	-0.005	36.000	4.970	168	5.335
LEAD	0.003	26.000	0.822	123	2.977	0.002	3.800	0.352	168	0.534
MAGNESIUM	1.900	140.000	30.581	123	28.439	3.500	200.000	59.421	168	37.088
MERCURY	-0.001	-0.010	0.000	123	0.000	-0.001	0.045	0.000	168	0.004
NITRATE	-0.100	2.000	0.329	102	0.391	-0.010	7.000	0.581	146	1.110
PHOSPHATE	-0.100	1.000	0.041	123	0.138	-0.010	1.000	0.018	168	0.093
POTASSIUM	-1.000	19.000	4.252	44	4.193	-1.000	11.000	2.922	45	2.459
SELENIUM	-0.010	-0.100	0.0	123	0.0	-0.001	-0.010	0.0	168	0.0
SIL DIOXID	-0.100	60.000	10.072	123	8.323	-0.100	58.000	25.622	168	15.643
SODIUM	155.000	1560.000	530.122	123	381.347	32.000	1170.000	273.167	168	221.695
SULFATE	-4.000	740.000	143.610	123	151.638	-4.000	900.000	357.024	168	185.697
SULFIDE	-0.010	6.500	1.036	44	1.212	0.030	49.000	3.301	46	9.714
ZINC	0.020	68.000	1.163	123	6.275	-0.010	15.000	0.679	168	1.494
GROS ALPHA	0.100	30.000	5.741	71	6.080	0.200	29.000	5.334	97	5.144
GROSS BETA	3.000	830.000	50.583	36	134.942	2.000	73.000	22.464	28	18.558
HARDNESS	20.000	690.000	185.861	101	153.023	32.000	1110.000	392.648	145	234.534
PH	6.000	11.000	7.270	120	0.675	6.000	8.800	6.816	165	0.463
CONDUCTANC	845.000	6000.000	2019.980	122	1181.373	810.000	4200.000	1591.623	167	741.923
DIS SOLIDS	540.000	3640.000	1419.715	123	799.393	530.000	2850.000	1129.470	168	506.343
MANGANESE	-0.050	0.800	0.086	123	0.118	-0.010	1.700	0.187	168	0.211
ALKALINITY	52.000	4500.000	975.927	123	788.579	70.000	2390.000	530.878	168	443.722
CYANIDE	-0.010	0.080	0.002	122	0.009	-0.010	0.100	0.002	167	0.012
BORON	-0.010	9.400	1.301	123	1.530	-0.010	4.800	0.622	168	0.939
BARIUM	-0.100	1.000	0.012	81	0.111	-0.100	-1.000	0.0	125	0.0
SILVER	-0.001	0.100	0.002	79	0.011	-0.001	0.100	0.006	123	0.019
NICKEL	-0.001	0.100	0.025	81	0.018	-0.001	0.200	0.026	125	0.027
LITHIUM	-0.100	1.000	0.109	44	0.197	-0.100	1.000	0.122	45	0.280
DOC	3.000	73.000	12.145	92	8.656	1.000	50.000	10.133	129	7.208
NITRITE-N	-0.020	0.600	0.149	43	0.198	-0.020	0.600	0.157	44	0.192
BROMIDE	-0.020	0.400	0.018	38	0.068	-0.020	0.500	0.062	43	0.121
C.O.D.	-0.100	92.000	12.941	44	18.900	-0.100	400.000	48.233	45	75.591
PHENOLS	-0.001	1.000	0.034	44	0.152	-0.001	0.174	0.010	45	0.029
KJELDAHL N	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
BERYLLIUM	-0.010	-0.100	0.0	2	0.0	-0.010	-0.010	0.0	2	0.0
MOLYBDENUM	-0.050	0.200	0.017	24	0.048	-0.050	1.800	0.142	24	0.419
STRONTIUM	0.100	5.000	1.312	24	1.288	0.100	11.700	4.612	24	3.037
VANADIUM	-0.050	-0.050	0.0	2	0.0	-0.050	-0.050	0.0	2	0.0

SAMPLE ITEM RANGE AND AVERAGE

	LOWER AQUIFER					UPPER AQUIFER				
ITEM	LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
ORTHO PHOS	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
AMMONIA-N	0.400	12.000	1.955	20	2.485	0.200	1.800	0.600	22	0.416
DIS-ORG C	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
MBAS	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
TOT COLIF	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
FEC COLIF	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
5-DAY B.O.	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
SPECTROGRAPHIC										
ALUMINUM	0.001	1.000	0.065	101	0.122	0.001	1.000	0.114	146	0.189
ANTIMONY	0.200	0.200	0.200	1	0.0	**********	0.0	0.0	0	0.0
ARSENIC	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
BARIUM	0.001	0.010	0.003	14	0.004	0.001	0.010	0.003	23	0.004
BERYLIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
BISMUTH	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
BORON	0.100	0.500	0.359	99	0.165	0.100	2.000	0.366	146	0.235
CADMIUM	99999.000	99999.000	0.0	0	0.0	**********	0.0	0.0	0	0.0
CALCIUM	0.100	99999.000	5.337	24	3.891	1.000	99999.000	7.882	17	3.533
CERIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
CESIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
CHROMIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
COBOLT	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
COLUMBIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
COPPER	0.001	0.020	0.005	92	0.005	0.001	0.020	0.006	136	0.005
DYSPROSIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
ERBIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
EUROPIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
GADOLINIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
GALLIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
GERMANIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
GOLD	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
HAFNIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
HOLMIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
INDIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
IRIDIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
IRON	0.010	0.500	0.048	99	0.087	0.010	2.000	0.118	145	0.251
LANTHANUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
LEAD	0.000	0.500	0.032	30	0.096	0.001	0.200	0.020	41	0.044
LITHIUM	0.001	0.100	0.011	74	0.020	0.001	0.500	0.014	100	0.053
LUTETIUM	0.010	0.010	0.010	1	0.0	0.001	0.010	0.005	2	0.006
MAGNESIUM	0.100	99999.000	3.509	23	3.471	0.100	99999.000	6.006	18	4.290
MANGANESE	0.001	0.100	0.013	83	0.025	0.001	0.200	0.020	128	0.036
MERCURY	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
MOLYBDENUM	0.001	0.100	0.010	52	0.018	0.001	0.500	0.017	82	0.077
NEODYMIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
NICKEL	0.001	0.001	0.001	1	0.0	0.001	0.001	0.001	2	0.0
OSMIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
PALLADIUM	**********	0.0	0.0	0	0.0	0.100	0.100	0.100	1	0.0
PLATINUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
POTASSIUM	0.010	5.000	0.873	98	1.083	0.010	5.000	0.903	143	1.116
PRASEODYMI	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0

WATER QUALITY ANALYSIS SUMMARY

SAMPLE ITEM RANGE AND AVERAGE

ITEM	LOWER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.	UPPER AQUIFER LOW	HIGH	AVERAGE	# ITEMS AVERAGED	STD DEV.
RADIUM	0.090	0.900	0.387	23	0.257	0.100	0.800	0.200	26	0.160
RHENIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
RHODIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
RUBIDIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
RUTHENIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
SAMARIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
SCANDIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
SELENIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
SILICON	-0.500	10.000	4.317	101	2.121	1.000	20.000	5.082	146	3.739
SILVER	0.000	0.001	0.001	7	0.000	0.000	0.001	0.001	13	0.000
SODIUM	2.000	99999.000	7.396	53	2.612	2.000	99999.000	7.280	100	2.906
STRONTIUM	0.001	1.000	0.096	92	0.102	0.001	1.000	0.108	136	0.094
TANTALUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
TERBIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
THALLIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
THORIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
THULIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
TIN	0.000	0.001	0.001	2	0.001	0.001	0.001	0.001	1	0.0
TITANIUM	0.001	0.010	0.003	41	0.004	0.001	0.020	0.004	79	0.004
TUNGSTEN	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
URANIUM	-1.500	-1.500	0.0	1	0.0	**********	0.0	0.0	0	0.0
VANADIUM	**********	0.0	0.0	0	0.0	0.001	0.001	0.001	1	0.0
YTTERBIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
YTTRIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0
ZINC	0.001	0.200	0.012	22	0.042	0.001	0.200	0.013	44	0.036
ZIRCONIUM	**********	0.0	0.0	0	0.0	**********	0.0	0.0	0	0.0

SAMPLES IN AQUIFER = 123

SAMPLES IN AQUIFER = 168

UPPER AQUIFER

WATER LEVEL

October, 1975 thru August, 1976

Below Ground Surface (ft.)

	9 Oct.	20 Nov.	12 Dec.	28 Jan.	17 Feb.	29 Mar.	14 April	21 May	23 June	30 July	28 Aug.	Sept.
AM 2A	389.45	387.63	386.41	385.17	384.34	383.19	382.50	381.85	--	379.40	379.09	Water Levels Not Measured During Month.
AM 3	33.57	33.45	33.11	33.23	33.04	32.79	31.60	30.04	28.72	29.17	30.06	
CE 702	52.40	52.30	52.39	52.64	52.65	52.80	52.66	53.02	54.50	53.38	53.70	
CE 707	259.79	258.76	258.11	257.25	256.64	242.22	250.32	250.60	250.97	252.03	252.00	
CE 708	48.87	50.60	49.86	51.78	51.80	51.30	47.72	44.81	46.43	44.30	46.91	
CE 709	39.84	37.02	36.14	35.90	35.69	35.50	34.88	35.00	34.48	33.90	38.84	
G-S 1	244.68	245.27	245.59	246.19	246.53	246.28	244.53	243.26	242.57	241.92	242.10	
G-S 2-3	103.49	102.75	102.35	102.25	101.97	100.87	100.28	99.86	99.26	99.06	99.26	
G-S 4-5	75.05	74.77	74.29	74.36	74.01	73.48	72.98	72.86	73.33	72.42	72.47	
G-S 6	55.62	55.54	55.42	55.50	55.45	55.27	54.95	55.22	55.10	55.20	55.61	
G-S 9	311.43	312.69	316.33	319.29	319.95	321.42	320.94	317.03	316.45	317.23	319.63	
G-S 10	340.35	340.11	--	339.75	339.60	339.36	339.14	339.48	339.50	339.37	339.62	
G-S 11	460.35	459.67	459.00	458.76	458.40	457.72	456.95	456.42	455.46	454.99	455.35	
G-S 12	388.30	387.60	386.97	386.55	386.24	385.41	384.67	382.79	382.83	381.86	382.91	
G-S 13	382.62	382.19	381.68	381.72	381.45	381.04	380.97	380.41	380.11	380.12	378.47	
G-S 15	274.73			273.56	273.41	272.99	272.83	272.69	274.76	272.58	272.49	
G-S M-1	620.64	621.13	--	619.10	618.77	618.71	625.57	619.31	619.40	619.95	620.26	
G-S M-2	231.22	230.68	229.75	228.94	228.23	225.76	225.39	225.36	224.01	221.28	223.13	
G-S M-3	21.59	21.96	20.32	19.16	19.21	18.57	17.50	17.72	18.75	18.58	18.46	
G-S M-4	491.80	491.95	491.56	492.04	492.08	492.25	--	492.77	492.94	493.26	491.60	
G-S M-5	235.73	235.81	235.24	235.70	235.64	235.51	235.38	235.75	235.80	235.94	235.90	
TO-1	21.80	20.65	20.41	20.95	20.83	20.53	20.13	22.35	22.46	22.30	22.73	
TO-2	113.36	113.36	122.96	112.93	112.73	112.57	112.18	113.81	113.70	111.32	111.44	

-- Water levels not collected due to poor weather conditions making access to hole difficult or because problems with monitoring hole and equipment.

UPPER AQUIFER

WATER LEVEL

October 1976 thru November 1976

	21 Oct.	14 Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
AM 2A	378.27	378.20										
AM 3	33.15	34.81										
CE 702	54.19	54.34										
CE 707	251.90	251.68										
CE 708	48.59	49.39										
CE 709	33.88	33.71										
G-S 1	243.26	243.92										
G-S 2-3	98.23	98.06										
G-S 4-5	72.39	73.59										
G-S 6	56.02	54.14										
G-S 8												
G-S 9	318.49	319.64										
G-S 10	339.53	339.40										
G-S 11	455.91	457.02										
G-S 12	383.58	384.79										
G-S 13	386.06	384.15										
G-S 15	272.26	272.20										
G-S M-1	620.96	622.15										
G-S M-2	222.65	221.98										
G-S M-3	17.96	17.85										
G-S M-4	493.62	493.84										
TO-1	23.54	23.64										
TO-2	110.85	111.42										

LOWER AQUIFER

WATER LEVEL

October, 1975 thru August, 1976

Below Ground Surface (ft)

	9 Oct.	20 Nov.	12 Dec.	28 Jan.	17 Feb.	29 Mar.	14 April	21 May	23 June	30 July	28 Aug.	Sept.
AM 2A	636.67	637.70	638.03	639.71	640.11	641.15	641.63	643.56	--	645.47	645.51	Water Levels Not Measured During Month.
AM 3	310.40	311.27	311.56	313.34	313.73	314.65	315.31	316.90	317.67	318.80	319.50	
CE 702	40.48	41.21	41.25	43.00	43.41	44.21	44.64	45.81	48.50	47.30	47.97	
CE 707	567.51	568.70	569.21	570.67	571.04	572.19	572.53	--	573.00	573.81	574.78	
CE 708	297.88	298.97	299.27	300.84	301.22	302.97	303.06	303.83	304.59	306.74	307.52	
CE 709	154.31	155.55	154.92	157.62	158.63	158.87	159.60	160.82	160.61	162.63	163.23	
G-S 1	602.65	602.43	602.13	602.13	601.70	601.64	601.58	601.91	601.76	601.67	602.36	
G-S 2-3	254.92	255.98	256.61	258.03	258.32	259.43	259.81	261.05	261.79	262.79	263.66	
G-S 4-5	98.31	99.55	100.09	100.57	101.95	102.89	103.40	104.46	105.12	--	105.74	
G-S 6	44.06	45.88	46.26	47.72	48.12	49.01	49.45	50.65	51.29	52.41	52.89	
G-S 9	513.25	514.31	514.68	516.10	516.22	517.19	517.96	517.56	518.14	518.51	519.65	
G-S 10	389.69	380.81	--	392.76	393.06	394.01	394.57	396.13	396.89	398.04	398.71	
G-S 11	721.76	723.02	723.36	725.51	725.53	726.65	727.18	727.63	728.46	729.60	730.46	
G-S 12	649.79	649.76	650.08	651.97	652.30	653.36	653.92	655.54	656.45	659.06	656.86	
G-S 13	573.82	574.98	575.36	577.08	577.34	578.39	578.96	580.40	581.58	582.80	579.40	
G-S 15	363.99	365.27	365.64	367.28	367.64	368.71	369.24	370.79	371.79	372.69	373.41	
G-S M-1	822.20	824.61	--	824.87	825.18	825.84	826.59	829.59	830.34	831.35	831.79	
G-S M-2	354.96	355.03	354.44	355.14	354.69	354.60	354.73	353.64	355.46	355.31	355.76	
G-S M-3	139.89	140.67	139.25	140.34	139.69	139.64	145.02	140.27	140.18	140.67	140.97	
G-S M-4	562.50	563.58	563.95	565.32	565.65	566.55	--	--	--	571.65	568.23	
TO-1	127.21	128.40	128.77	130.41	130.81	131.78	132.31	133.54	134.56	135.78	136.28	
TO-2	356.68	357.83	358.31	359.62	359.95	361.01	360.93	362.93	363.57	364.64	365.30	

-- Water levels not collected due to poor weather conditions making access to hole difficult or because problems with monitoring hole and equipment.

LOWER AQUIFER

WATER LEVEL

October 1976 thru November 1976

Below Ground Surface (ft.)

	21 Oct.	14 Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
AM 2A	647.15	647.49										
AM 3	320.55	318.82										
CE 702	48.98	49.18										
CE 707	575.77	576.22										
CE 708	308.55	309.09										
CE 709	164.26	164.67										
G-S 1	601.94	602.02										
G-S 2-3	264.46	264.89										
G-S 4-5	107.84	105.19										
G-S 6	53.81	56.19										
G-S 8												
G-S 9	520.87	521.17										
G-S 10	399.71	396.97										
G-S 11	731.42	731.96										
G-S 12	659.25	659.62										
G-S 13	584.46	584.91										
G-S 15	374.34	374.81										
G-S M-1	832.65	834.60										
G-S M-2	355.52	353.85										
G-S M-3	141.45	143.07										
G-S M-4	568.79	569.50										
TO-1	137.28	137.61										
TO-2	366.39	366.86										